Korea Laboratory Accreditation Scheme

CERTIFICATE OF ACCREDITATION

FITI TESTING & RESEARCH INSTITUTE

Accreditation No. : KT001

Corporation Registration No. : 114122-0000097

Address of Laboratory : (Branch site) 79, Magokjungang 8-ro 3-gil, Gangseo-gu, Seoul, Republic of Korea
(Branch site-1) 21, Yangcheong-3-gil, Ochang-Eup, Cheongwon-gu, Cheongju-si, Chungcheongbuk-do, Republic of Korea
(Satellite facilities-1) 43, Yangcheong-3-gil, Ochang-Eup, Cheongwon-gu, Cheongju-si, Chungcheongbuk-do, Republic of Korea

Date of Initial Accreditation : April 02, 1994

Validity of Accreditation : January 23, 2023 ~ January 22, 2027

Scope of Accreditation : Attached Annex

Date of issue : January 29, 2024

This testing laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to Joint ISO-ILAC-IAF Communiqué).

CHIN CHONGWOOK

Head
Korea Laboratory Accreditation Scheme

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01. Mechanical Test

01.002 Textiles and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
MOTIE Notice No.2018-032(03.05.2018.)	Textile and Related Products	Self-regulatory Safety Confirmation Annex 1 Textile products for infant - Cords and drawstrings - small parts attachment strength	1 mm or more 1 N or more	BS	N
MOTIE Notice No.2021-171(10.27.2021.)	Textile and Related Products	Safety Confirmation Standards Annex 1 Textile products for infant - small parts attachment strength - Cords and drawstrings	1 N or more 1 mm or more	BS	N
AATCC TM124-2018t	Textile and Related Products	Test Method for Smoothness Appearance of Fabrics after Home Laundering	(SA-1 ~ SA-5) grade	BS	N
AATCC TM127-2017(2018)e	Textile and Related Products	Test Method for Water Resistance: Hydrostatic Pressure	(0.1 ~ 2 000) mbar	BS	N
AATCC TM128-2017e	Textile and Related Products	Test Method for Wrinkle Recovery of Fabrics: Appearance	(1.0 ~ 5.0) rating	BS	N
AATCC TM135-2018t	Textile and Related Products	Test Method for Dimensional Changes of Fabrics after Home Laundering	± 0.1 % or more	BS	N
AATCC TM179-2019	Textile and Related Products	Test Method for Skew Change in Fabrics After Home Laundering	± 0.1 % or more	BS	N
AATCC TM22-2017e	Textile and Related Products	Test Method for Water Repellency: Spray	(0 ~ 100) rating	BS	N
AATCC TM79-2010e2(2018)e	Textile and Related Products	Test Method for Absorbency of Textiles	(0 ~ 60) s	BS	N
ASTM D1422/D1422M-13 (2020)	Textile and Related Products	Standard Test Methods for Twist in Single Spun Yarns by the Untwist- Retwist Method	1 turns/m or more	BS	N
ASTM D1423/D1423M-16 (2022)	Textile and Related Products	Standard Test Methods for Twist in Yarns by Direct-Counting	1 turns/m or more	BS	N
ASTM D1424-21	Textile and Related Products	Standard Test Method for Tearing Strength of Fabrics by Falling-Pendulum	(1 ~ 136) N	BS	N

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		(Elmendorf-Type) Apparatus			
ASTM D1518-14	Textile and Related Products	Standard Test Method for Thermal Resistance of Batting Systems Using a Hot Plate	0.001 $m^2 \cdot K/W$ or more	BS	N
ASTM D1777-96(2019)	Textile and Related Products	Standard Test Method for Thickness of Textile Materials	(0.01 ~ 20.00) mm	BS	N
ASTM D204-02(2021)	Textile and Related Products	Standard Test Methods for Sewing Threads	(0.1 ~ 1 000) N	BS	N
ASTM D2099-14(2023)	Textile and Related Products	Standard Test Method for Dynamic Water Resistance of Shoe Upper Leather by the Maeser Water Penetration Tester	1 cycle or more	BS	N
ASTM D2256/D2256M-21	Textile and Related Products	Standard Test Method for Tensile Properties of Yarns by the Single- Strand Method	(0.1 ~ 1 000) N	BS	N
ASTM D2261-13(2017)e1	Textile and Related Products	Standard Test Method for Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure (Constant-Rate-of-Extension Tensile Testing Machine)	(0.1 ~ 5 000) N	BS	N
ASTM D3107-07(2019)	Textile and Related Products	Standard Test Methods for Stretch Properties of Fabrics Woven from Stretch Yarns	(0.1 ~ 100) %	BS	N
ASTM D3511/D3511M-16 (2022)	Textile and Related Products	Standard Test Method for Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Brush Pilling Tester	(1 ~ 5) rating	BS	N
ASTM D3512/D3512M-22	Textile and Related Products	Standard Test Method for Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Random Tumble Pilling Tester	(1 ~ 5) rating	BS	N
ASTM D3514/D3514M-16(2020)	Textile and Related Products	Standard Test Method for Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Elastomeric Pad	(1 ~ 5) rating	BS	N

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
ASTM D3774-18	Textile and Related Products	Standard Test Method for Width of Textile Fabric	1 mm or more	BS	N
ASTM D3775-17e1	Textile and Related Products	Standard Test Method for End (Warp) and Pick (Filling) Count of Woven Fabrics	1 yarns/cm or more	BS	N
ASTM D3776/D3776M-20	Textile and Related Products	Standard Test Methods for Mass Per Unit Area (Weight) of Fabric	0.1 g/m^2 or more	BS	N
ASTM D3786/D3786M-18(2023)	Textile and Related Products	Standard Test Method for Bursting Strength of Textile Fabrics－Diaphragm Bursting Strength Tester Method	(14 ~ 7 000) kPa	BS	N
ASTM D3822/D3822M-14(2020)	Textile and Related Products	Standard Test Method for Tensile Properties of Single Textile Fibers	(0.1~ 1 000) N	BS	N
ASTM D3882-08(2020)	Textile and Related Products	Standard Test Method for Bow and Skew in Woven and Knitted Fabrics	1 mm or more, 0.1 % or more	BS	N
ASTM D3884-22	Textile and Related Products	Standard Guide for Abrasion Resistance of Textile Fabrics (Rotary Platform Abrader Method)	1 cycle or more, 0.01 % or more	BS	N
ASTM D3885-07a(2019)e1	Textile and Related Products	Standard Test Method for Abrasion Resistance of Textile Fabrics (Flexing and Abrasion Method)	1 cycle or more	BS	N
ASTM D3886-22	Textile and Related Products	Standard Test Method for Abrasion Resistance of Textile Fabrics (Inflated Diaphragm Apparatus)	1 cycle or more	BS	N
ASTM D3939/D3939M-13(2017)	Textile and Related Products	Standard Test Method for Snagging Resistance of Fabrics (Mace)	(1.0 ~ 5.0) rating	BS	N
ASTM D4964-96(2020)	Textile and Related Products	Standard Test Method for Tension and Elongation of Elastic Fabrics (Constant-Rate-of-Extension Type Tensile Testing Machine)	(0.1 ~ 100) N	BS	N
ASTM D4966-22	Textile and Related Products	Standard Test Method for Abrasion Resistance of Textile	1 rub or more	BS	N

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Fabrics (Martindale Abrasion Tester Method)			
ASTM D4970/D4970M-22	Textile and Related Products	Standard Test Method for Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Martindale Tester	(1 ~ 5) rating	BS	N
ASTM D5034-21	Textile and Related Products	Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)	(0.1 ~ 5 000) N 0.1 % or more	BS	N
ASTM D5035-11(2019)	Textile and Related Products	Standard Test Method for Breaking Force and Elongation of Textile Fabrics (Strip Method)	(0.1 ~ 5 000) N 0.1 % or more	BS	N
ASTM D5587-15(2019)	Textile and Related Products	Standard Test Method for Tearing Strength of Fabrics by Trapezoid Procedure	(0.1 ~ 5 000) N	BS	N
ASTM D6614/D6614M-20	Textile and Related Products	Standard Test Method for Stretch Properties of Textile Fabrics - CRE Method	(0.1 ~ 100) %	BS	N
ASTM D737-18	Textile and Related Products	Standard Test Method for Air Permeability of Textile Fabrics	(0.05 ~ 700) $cm^3/s/cm^2$	BS	N
ASTM E96/E96M-22a$^{\varepsilon 1}$	Textile and Related Products	Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials	1 $g/m^2/h$ or more	BS	N
ASTM F1816-18	Textile and Related Products	Standard Safety Specification for Drawstrings on Children's Upper Outerwear	1 mm or more	BS	N
BS 2819:1990+A2:2016	Textile and Related Products	Methods for determination of Bow, skew and lengthway distortion in knitted fabrics	1 mm or more, 1 % or more	BS	N
BS EN 1049-2:1994	Textile and Related Products	Textiles. Woven fabrics. Construction. Methods of analysis. Determination of number of threads per unit length	1 threads/cm or more	BS	N

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
BS EN 12127:1998	Textile and Related Products	Textiles. Fabrics. Determination of Mass per Unit Area Using Small Samples	0.1 g/m^2 or more	BS	N
BS EN ISO 20932-1:2020+A1:2021	Textile and Related Products	Textiles - Determination of the elasticity of fabrics- Part 1: Strip tests	0.1 % or more	BS	N
BS EN 1773:1997	Textile and Related Products	Textiles – Fabrics - Determination of Width and Length	0.01 m or more	BS	N
16 CFR Part 1610	Textile and Related Products	Standard for the flammability of clothing textiles	0.1 s or more	BS	N
16 CFR Part 1615	Textile and Related Products	Standard for the flammability of children's sleepwear size o through 6X (FF 3-71)	2.54 mm or more	BS	N
16 CFR Part 1616	Textile and Related Products	Standard for the flammability of children's sleepwear size 7 through 14 (FF 5-74)	2.54 mm or more	BS	N
ISO 11092:2014	Textile and Related Products	Textiles - Physiological effects - Measurement of thermal and water-vapour resistance under steady-state conditions (sweating guarded-hotplate test)	(0 ~ 2) m^2 · K/W, (0 ~ 700) m^2 · Pa/W	BS	N
ISO 12945-1:2000	Textile and Related Products	Textiles — Determination of fabric propensity to surface fuzzing and to pilling — Part 1: Pilling box method	(1 ~ 5) grade	BS	N
ISO 12945-2:2000	Textile and Related Products	Textiles — Determination of fabric propensity to surface fuzzing and to pilling — Part 2: Modified Martindale method	(1 ~ 5) grade	BS	N
ISO 12947-2:2016	Textile and Related Products	Textiles - Determination of the abrasion resistance of fabrics by the Martindale method - Part 2: Determination of specimen breakdown	1 rub or more	BS	N
ISO 12947-3:1998/ Cor.1:2002	Textile and Related Products	Textiles - Determination of the abrasion resistance of fabrics	1 mg or more	BS	N

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		by the Martindale method - Part 3: Determination of mass loss			
ISO 12947-4:1998/ Cor.1:2002	Textile and Related Products	Textiles - Determination of the abrasion resistance of fabrics by the Martindale method - Part 4: Assessment of appearance change	Visual	BS	N
ISO 13934-1:2013	Textile and Related Products	Textiles-Tensile Properties of Fabrics-Part 1: Determination of Maximum Force and Elongation at Maximum Force Using the Strip Method	(0.1 ~ 5 000) N 0.1 % or more	BS	N
ISO 13934-2:2014	Textile and Related Products	Textiles - Tensile properties of fabrics - Part 2: Determination of maximum force using the grab method	(0.1 ~ 5 000) N	BS	N
ISO 13935-1:2014	Textile and Related Products	Textiles - Seam tensile properties of fabrics and made-up textile articles - Part 1: Determination of maximum force to seam rupture using the strip method	(0.1 ~ 5 000) N	BS	N
ISO 13935-2:2014	Textile and Related Products	Textiles - Seam tensile properties of fabrics and made-up textile articles - Part 2: Determination of maximum force to seam rupture using the grab method	(0.1 ~ 5 000) N	BS	N
ISO 13936-1:2004	Textile and Related Products	Textiles - Determination of the slippage resistance of yarns at a seam in woven fabrics - Part 1: Fixed seam opening method	(0.1 ~ 200) N	BS	N
ISO 13936-2:2004	Textile and Related Products	Textiles - Determination of the slippage resistance of yarns at a seam in woven fabrics - Part 2: Fixed load method	1 mm or more	BS	N
ISO 13937-1:2000	Textile and Related Products	Textiles - Tear properties of fabrics - Part 1: Determination of tear force using ballistic	(1 ~ 136) N	BS	N

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		pendulum method (Elmendorf)			
ISO 13937-2:2000	Textile and Related Products	Textiles - Tear properties of fabrics - Part 2: Determination of tear force of trouser-shaped test specimens (Single tear method)	(0.1 ~ 5 000) N	BS	N
ISO 13937-3:2000	Textile and Related Products	Textiles - Tear properties of fabrics - Part 3: Determination of tear force of wing-shaped test specimens (Single tear method)	(0.1 ~ 5 000) N	BS	N
ISO 13937-4:2000	Textile and Related Products	Textiles - Tear properties of fabrics - Part 4: Determination of tear force of tongue-shaped test specimens (Double tear test)	(0.1 ~ 5 000) N	BS	N
ISO 13938-2:2019	Textile and Related Products	Textiles - Bursting properties of fabrics - Part 2: Pneumatic method for determination of bursting strength and bursting distension	(10 ~ 1 050) kPa	BS	N
ISO 14419:2010	Textile and Related Products	Textiles - Oil repellency - Hydrocarbon resistance test	oil repellency grade: 0 ~ 8	BS	N
ISO 2061:2015	Textile and Related Products	Textiles - Determination of twist in yarns - Direct counting method	1 turns/m or more	BS	N
ISO 2062:2009	Textile and Related Products	Textiles - Yarns from packages - Determination of single-end breaking force and elongation at break using constant rate of extension (CRE) tester	(0.1 ~ 1 000) N 0.1 % or more	BS	N
ISO 2313-1:2021	Textile and Related Products	Textiles — Determination of the recovery from creasing of a folded specimen of fabric by measuring the angle of recovery — Part1: Method of the horizontally folded specimen	1° or more	BS	N
ISO 2411:2017	Textile and Related Products	Rubber- or plastics-coated fabrics - Determination of	(0.1 ~ 1 000) N	BS	N

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		coating adhesion			
ISO 3005:1978	Textile and Related Products	Textiles - Determination of dimensional change of fabrics induced by free-steam	± 0.1 % or more	BS	N
ISO 3801:1977	Textile and Related Products	Textiles - Woven fabrics - Determination of mass per unit length and mass per unit area	1 g/m^2 or more 1 g/m or more	BS	N
ISO 4674-2:2021	Textile and Related Products	Rubber- or plastics-coated fabrics - Determination of tear resistance - Part 2: Ballistic pendulum method	(1 ~ 136) N	BS	N
ISO 4920:2012	Textile and Related Products	Textile fabrics - Determination of resistance to surface wetting (spray test)	(1 ~ 5) grade	BS	N
ISO 5025:2017	Textile and Related Products	Reinforcement products - Woven fabrics - Determination of width and length	0.1 cm or more	BS	N
ISO 5077:2007	Textile and Related Products	Textiles - Determination of dimensional change in washing and drying	± 0.5 % or more	BS	N
ISO 5084:1996	Textile and Related Products	Textiles - Determination of thickness of textiles and textile products	(0.01 ~ 20.00) mm	BS	N
ISO 5470-1:2016	Textile and Related Products	Rubber- or plastics-coated fabrics - Determination of abrasion resistance - Part 1: Taber abrader	1 cycle or more, 1 mg or more	BS	N
ISO 5470-2:2021	Textile and Related Products	Rubber- or plastics-coated fabrics - Determination of abrasion resistance - Part 2: Martindale abrader	(0 ~ 5) rating	BS	N
ISO 6330:2021	Textile and Related Products	Textiles - Domestic washing and drying procedures for textile testing	(30 ~ 92) ℃	BS	N
ISO 6939:1988	Textile and Related Products	Textiles - Yarns from packages - Method of test for breaking strength of yarn by the skein method	(0.1 ~ 5 000) N	BS	N
ISO 7211-1:1984	Textile and	Textiles - Woven fabrics -	Visual	BS	N

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
	Related Products	Construction - Methods of analysis - Part 1: Methods for the presentation of a weave diagram and plans for drafting, denting and lifting			
ISO 7211-2:1984	Textile and Related Products	Textiles - Woven fabrics - Construction - Methods of analysis - Part 2: Determination of number of threads per unit length	1 thread/unit length or more	BS	N
ISO 7211-3:1984	Textile and Related Products	Textiles - Woven fabrics - Construction - Methods of analysis - Part 3: Determination of crimp of yarn in fabric	1 mm or more, 1 % or more	BS	N
ISO 7211-4:1984	Textile and Related Products	Textiles - Woven fabrics - Construction - Methods of analysis - Part 4: Determination of twist in yarn removed from fabric	1 turns/m or more	BS	N
ISO 7211-5:2020	Textile and Related Products	Textiles -- Methods for analysis of woven fabrics construction -- Part 5: Determination of linear density of yarn removed from fabric	0.1 tex or more	BS	N
ISO 7211-6:2020	Textile and Related Products	Textiles — Methods for analysis of woven fabrics construction — Part 6: Determination of the mass of warp and weft per unit area of fabric	1 g/m^2 or more	BS	N
ISO 7768:2009	Textile and Related Products	Textiles - Test method for assessing the smoothness appearance of fabrics after cleansing	(SA-1 ~ SA-5) grade	BS	N
ISO 7769:2009	Textile and Related Products	Textiles - Test method for assessing the appearance of creases in fabrics after cleansing	grade: 1 ~ 5	BS	N
ISO 811:2018	Textile and Related Products	Textiles - Determination of resistance to water penetration - Hydrostatic pressure test	(0.1 ~ 2 000) cmH_2O	BS	N

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
ISO 9237:1995	Textile and Related Products	Textiles - Determination of the permeability of fabrics to air	(1 ~ 10 000) mm/s	BS	N
ISO 9865:1991	Textile and Related Products	Textiles - Determination of water repellency of fabrics by the Bundesmann rain-shower test	(1 ~ 5) grade 0.1 % or more	BS	N
KS G 3102:2020	Textile and Related Products	Slide fasteners 7.2 Tensile strength test of tooth 7.8 Lock strength test of slider 7.9 Endurance test of opening and closing 7.14 Measuring methods of dimension	(0.1 ~ 5 000) N (0.1 ~ 5 000) N 1 cycle or more (0.01 ~ 150) mm	BS	N
KS K 0215:2019	Textile and Related Products	Test method for man-made filament yarns 7.3 Yarn Number	0.1 tex or more	BS	N
KS K 0350:2022	Textile and Related Products	Test method for bursting strength of cloth : Ball bursting method	(0.1 ~ 5 000) N	BS	N
KS K 0352:2019	Textile and Related Products	Test method for stretch properties of stretch woven fabrics	0.1 % or more	BS	N
KS K 0412:2022	Textile and Related Products	Test method for tensile strength and elongation of filament yarn	(0.1 ~ 1 000) N	BS	N
KS K 0414:2021	Textile and Related Products	Test method for yarn number of cotton yarn	0.1 Ne or more	BS	N
KS K 0415:2022	Textile and Related Products	Textiles-Woven fabrics Construction Methods of analysis-Part 5 : Determination of linear density of yarn removed from fabric	0.1 Ne or more, 0.1 Nm or more, 0.1 Denier or more, 0.1 Tex or more	BS	N
KS K 0418:2019	Textile and Related Products	Test method for twist number and twist contraction of plied yarns	1 turns/m or more, 0.1 % or more	BS	N
KS K 0437:2019	Textile and Related Products	Test method for permissible maximum twist of filament yarn	1 twist/m or more	BS	N

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KS K 0466:2021	Textile and Related Products	Test method for thermal resistance of batting systems using a hot plate	(0.1 ~ 1.5) K · m^2/W (0.7 ~ 10) W/m^2 · K	BS	N
KS K 0499:2018	Textile and Related Products	Testing method for pilling resistance of textile fabrics : Random tumble pilling tester method	(1 ~ 5) grade	BS	N
KS K 0501:2018	Textile and Related Products	Test method for pilling resistance of textile fabrics : Brush and sponge method	(1 ~ 5) grade	BS	N
KS K 0512:2022	Textile and Related Products	Test method for determination of number of wales and courses per unit length in knitted fabrics	0.1 stitch/5 cm or more	BS	N
KS K 0514:2022	Textile and Related Products	Measuring method for weight of cloth : Small specimen method	0.1 g/m^2 or more	BS	N
KS K 0515:2022	Textile and Related Products	Measuring method for weight of cloth : Full width specimen method	0.1 g/m or more	BS	N
KS K 0520:2021	Textile and Related Products	Textiles - Tensile properties of fabrics - Determination of maximum force and elongation at maximum force using the grab method	(0.1 ~ 5 000) N 0.1 % or more	BS	N
KS K 0521:2023	Textile and Related Products	Textiles—Tensile properties of fabrics—Determination of maximum force and elongation at maximum force using the strip method	(0.1 ~ 5 000) N 0.1 % or more	BS	N
KS K 0531:2022	Textile and Related Products	Test method for laminated fabrics 6.10 Determination of Adhesion	(0.1 ~ 1 000) N	BS	N
KS K 0533:2019	Textile and Related Products	Test method for adhesion of coated fabric	(0.1 ~ 1 000) N	BS	N
KS K 0534:2019	Textile and Related Products	Test method for tearing strength of cloth: Wing rip method	(0.1 ~ 5 000) N	BS	N
KS K 0536:2019	Textile and Related Products	Testing method for tearing strength of cloth: Tongue	(0.1 ~ 5 000) N	BS	N

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		method			
KS K 0537:2019	Textile and Related Products	Testing method for tearing strength of cloth: Trapezoid method	(0.1 ~ 5 000) N	BS	N
KS K 0538:2022	Textile and Related Products	Test method for stiffness of fabrics: Heart loop test	1 mm or more	BS	N
KS K 0540:2022	Textile and Related Products	Testing method for abrasion resistance of cloth: Inflated diaphram method	10 cycles or more	BS	N
KS K 0555:2021	Textile and Related Products	Test method for electrostatic propensity of woven and knitted fabrics	A : 0.1 s or more B : 1 V or more	BS	N
KS K 0558:2022	Textile and Related Products	Test method for dimensional change percentage by ironing of woven and knitted fabrics	± 0.1 % or more	BS	N
KS K 0560:2018	Textile and Related Products	Measuring method for warmth keeping property of cloth	0.1 % or more	BS	N
KS K 0561:2022	Textile and Related Products	Testing methods for snag of woven and knitted fabrics	(1 ~ 5) grade	BS	N
KS K ISO 4920:2012	Textile and Related Products	Textile fabrics - Determination of resistance to surface wetting (spray test)	(0 ~ 5) grade	BS	N
KS K 0592:2022	Textile and Related Products	Test method for water resistance of coated fabrics : High range, hydrostatic pressure method	(14 ~ 5 250) kPa	BS	N
KS K 0594:2021	Textile and Related Products	Test methods for water vapour permeability of textile	1 $g/m^2/h$ or more	BS	N
KS K 0605:2023	Textile and Related Products	Test method for bow and skewness of woven and knitted fabrics	1 mm or more, 0.1 % or more	BS	N
KS K 0610:2022	Textile and Related Products	Test method for soil release: Oily stain release method	(1 ~ 5) grade	BS	N
KS K 0760:2019	Textile and Related Products	Test method for resistance of coated cloth to blocking	(1 ~ 4) grade	BS	N
KS K 0802:2022	Textile and Related Products	Test method for dimensional change in laundering of socks	± 0.1 % or more	BS	N
KS K 0941:2018	Textile and Related Products	Safety of children's clothing — Cords and drawstrings on	1 mm or more	BS	N

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		children's clothing - Specifications			
KS K ISO 11092:2014	Textile and Related Products	Textiles-Physiological Effects-Measurement of Thermal and Water-Vapour Resistance under Steady-State Conditions (Sweating Guarded-Hotplate Test)	(0 ~ 2) $m^2 \cdot K/W$, (0 ~ 700) $m^2 \cdot Pa/W$	BS	N
KS K ISO 12945-1:2000	Textile and Related Products	Textiles — Determination of fabric propensity to surface fuzzing and to pilling — Part 1: Pilling box method	(1 ~ 5) grade	BS	N
KS K ISO 12945-2:2000	Textile and Related Products	Textiles — Determination of fabric propensity to surface fuzzing and to pilling — Part 2: Modified Martindale method	(1 ~ 5) grade	BS	N
KS K ISO 12947-2:2016	Textile and Related Products	Textiles — determination of the abrasion resistance of fabrics by the Martindale method Part 2: Determination of specimen breakdown	1 rub or more	BS	N
KS K ISO 12947-3:1998	Textile and Related Products	Textiles — determination of the abrasion resistance of fabrics by the Martindale method Part 3: Determination of mass loss	1 mg or more	BS	N
KS K ISO 12947-4:1998	Textile and Related Products	Textiles — determination of the abrasion resistance of fabrics by the Martindale method Part 4: Assessment of appearance change	Visual	BS	N
KS K ISO 13935-1:2014	Textile and Related Products	Textiles — Seam tensile properties of fabrics and made-up textile articles — Part 1: Determination of maximum force to seam rupture using the strip method	(0.1 ~ 5 000) N	BS	N
KS K ISO 13935-2:2014	Textile and Related Products	Textiles — Seam tensile properties of fabrics and made-up textile articles — Part 2: Determination of maximum	(0.1~ 5 000) N	BS	N

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		force to seam rupture using the grab method			
KS K ISO 13936-1:2004	Textile and Related Products	Textiles — Determination of the slippage resistance of yarns at a seam in woven fabrics — Part 1: Fixed seam opening method	(0.1 ~ 200) N	BS	N
KS K ISO 13936-2:2004	Textile and Related Products	Textiles — Determination of the slippage resistance of yarns at a seam in woven fabrics — Part 2: Fixed load method	1 mm or more	BS	N
KS K ISO 13937-1:2000	Textile and Related Products	Textiles — Tear properties of fabrics — Part 1: Determination of tear force using ballistic pendulum method (Elmendorf)	(1 ~ 136) N	BS	N
KS K ISO 13937-2:2000	Textile and Related Products	Textiles — Tear properties of fabrics — Part 2: Determination of tear force of trouser-shaped test specimens (Single tear method)	(0.1 ~ 5 000) N	BS	N
KS K ISO 13938-1:1999	Textile and Related Products	Textiles — Bursting properties of fabrics — Part 1: Hydraulic method for determination of bursting strength and bursting distention	(0.1 ~ 5 000) kPa	BS	N
KS K ISO 14419:2010	Textile and Related Products	Textiles — Oil repellency — Hydrocarbon resistance test	(0 ~ 8) grade	BS	N
KS K ISO 17202:2002	Textile and Related Products	Textiles — Determination of twist in single spun yarns — Untwist/retwist method	1 turns/m or more	BS	N
KS K ISO 2:1973	Textile and Related Products	Textiles - Designation of the direction of twist in yarns and related products	S, Z direction	BS	N
KS K ISO 2060:1994	Textile and Related Products	Textiles — Yarn from packages — Determination of linear density (mass per unit length) by the skein method	0.1 tex or more	BS	N
KS K ISO 2061:2015	Textile and Related Products	Textiles — Determination of twist in yarns — Direct	1 turns/m or more	BS	N

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01. Mechanical Test

01.002 Textiles and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		counting method			
KS K ISO 2062:2009	Textile and Related Products	Textiles－Yarns from packages－ Determination of single-end breaking force and elongation at break using constant rate of extension(CRE) tester	(0.1 ~ 1 000) N 0.1 % or more	BS	N
KS K ISO 22198:2006	Textile and Related Products	Textiles － Fabrics － Determination of width and length	0.01 m or more	BS	N
KS K ISO 22958:2005	Textile and Related Products	Textiles－Water resistance－Rain tests: exposure to a horizontal water spray	0.1 g or more	BS	N
KS K ISO 5077:2007	Textile and Related Products	Textiles－Determination of dimensional change in washing and drying	± 0.5 % or more	BS	N
KS K ISO 5084:1996	Textile and Related Products	Textiles － Determination of thickness of textile and textile products	(0.01 ~ 20.00) mm	BS	N
KS K ISO 6330:2012	Textile and Related Products	Textiles － Domestic washing and drying procedures for textile testing	(16 ~ 92) ℃	BS	N
KS K ISO 6939:1988	Textile and Related Products	Textiles － Yarns from packages － Method of test for breaking strength of yarn by the skein method	(0.1 ~ 5 000) N	BS	N
KS K ISO 7211-1:1984	Textile and Related Products	Textiles － Woven fabrics － Construction － Methods of analysis － Part 1: Methods for the presentation of a weave diagram and plans for drafting, denting and lifting	-	BS	N
KS K ISO 7211-2:1984	Textile and Related Products	Textiles － Woven fabrics － Construction － Methods of analysis － Part 2: Determination of number of threads per unit length	1 threads/cm or more	BS	N
KS K ISO 7211-3:1984	Textile and Related Products	Testiles － Woven fabrics － Construction － Methods of analysis － Part 3: Determination of crimp of yarn	1 mm or more, 1 % or more	BS	N

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01. Mechanical Test

01.002 Textiles and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		in fabric			
KS K ISO 7211-4:1984	Textile and Related Products	Textiles – Woven fabrics – Construction – Methods of analysis – Part 4: Determination of twist in yarn removed from fabric	1 twist/m or more	BS	N
KS K ISO 7768:2009	Textile and Related Products	Textiles – Test method for assessing the smoothness appearance of fabrics after cleansing	(SA-1 ~ SA-5) grade	BS	N
KS K ISO 7771:1985	Textile and Related Products	Textiles-Determination of dimensional changes of fabrics induced by cold-water immersion	± 0.1 % or more	BS	N
KS K ISO 811:2018	Textile and Related Products	Textiles – Determination of resistance to water penetration-Hydrostatic pressure test	(0.1 ~ 2 000) cm H_2O	BS	N
KS K ISO 9237:1995	Textile and Related Products	Textiles-Determination of the permeability of fabrics to air	(1 ~ 10 000) mm/s	BS	N
KS K ISO 6942:2002	Textile and Related Products	Protective clothing -- Protection against heat and fire -- Method of test: Evaluation of materials and material assemblies when exposed to a source of radiant heat	0.1 s or more, 0.1 kW/m^2 or more	BS	N
ISO 6942:2002	Textile and Related Products	Protective clothing – Protection against heat and fire – Method of test: Evaluation of materials and material assemblies when exposed to a source of radiant heat	0.1 s or more, 0.1 kW/m^2 or more	BS	N
KS K ISO 9151:2016	Textile and Related Products	Protective clothing against heat and flame -- Determination of heat transmission on exposure to flame	0.1 s or more	BS	N
ISO 9151:2016	Textile and Related Products	Protective clothing against heat and flame -- Determination of heat transmission on exposure to flame	0.1 s or more	BS	N
KS K ISO	Textile and	Clothing for protection against	0.1 s or more	BS	N

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01. Mechanical Test

01.002 Textiles and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
12127-1:2015	Related Products	heat and flame -- Determination of contact heat transmission through protective clothing or constituent materials -- Part 1: Contact heat produced by heating cylinder			
ISO 12127-1:2015	Textile and Related Products	Clothing for protection against heat and flame -- Determination of contact heat transmission through protective clothing or constituent materials -- Part 1: Contact heat produced by heating cylinder	0.1 s or more	BS	N
IEC 63203-204-1:2023	Textile and Related Products	Wearable electronic devices and technologies - Part 204-1: Electronic textile - Test method for assessing washing durability of e-textile products	0.001 Ω/m or more	BS	N
BS EN 16812:2016	Textile and Related Products	Textiles and textile products - Electrically conductive textiles - Determination of the linear electrical resistance of conductive tracks	0.001 Ω/m or more	BS	N
KS K 3601:2018	Textile and Related Products	Polyester Spun Sewing Thread 5.3 Length 5.4 Mass per Unit Length 5.5 Linear Density 5.8 Coefficient of Variation of Twist	1 m or more 0.1 g or more 1 dtex or more 0.1% or more	BS	N
KS K 6101:2022	Textile and Related Products	Cotton Towel 5.2 Mass per Piece	0.1 g/piece or more	BS	N

01. Mechanical Test

01.011 Leather and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing

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01. Mechanical Test

01.011 Leather and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
ISO 2589:2016	Leather and Related Products	Leather – Physical and mechanical tests – Determination of thickness	0.01 mm or more	BS	N
KS M 6882:2023	Leather and Related Products	Testing method for leathers 7.1 Thickness 7.2 Tensile Strength and Elongation 7.3 Tear Strength	0.01 mm or more (0.1 ~ 1 000) N (0.1 ~ 1 000) N	BS	N
KS M 6886:2016	Leather and Related Products	Testing method of water vapour permeability for leather	1 mg/cm^2/h or more	BS	N
KS M 6888:2023	Leather and Related Products	Testing method for clothing leathers 7 Tensile test 8 Tear test	(0.1 ~ 1 000) N, (0.1 ~ 1 000) N	BS	N
KS M ISO 17235:2015	Leather and Related Products	Leather – Physical and mchanical tests – Determination of softness	(0.1 ~ 6.5) mm	BS	N

01. Mechanical Test

01.017 Living Supplies

Test method	Products and materials	Standard designation	Test range	Site	Field testing
16 CFR Part 1500.48	Living Supplies	Technical requirements for determining a sharp point in toys and other articles intended for use by children under 8 years of age	Pass/Fail	BS	N
16 CFR Part 1500.49	Living Supplies	Technical requirements for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age	Pass/Fail	BS	N
16 CFR Part 1500.50	Living Supplies	Test methods for simulating use and abuse of toys and other articles intended for use by children	-	BS	N
16 CFR Part 1500.51	Living Supplies	Test methods for simulating use and abuse of toys and	Pass/Fail	BS	N

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01. Mechanical Test

01.017 Living Supplies

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		other articles intended for use by children 18 months of age or less			
16 CFR Part 1500.52	Living Supplies	Test methods for simulating use and abuse of toys and other articles intended for use by children over 18 but not over 36 months of age	Pass/Fail	BS	N
16 CFR Part 1500.53	Living Supplies	Test methods for simulating use and abuse of toys and other articles intended for use by children over 36 but not over 96 months of age	Pass/Fail	BS	N
16 CFR Part 1501	Living Supplies	Method for identifying toys and other articles intended for use by children under 3 years of age which present choking, aspiration, or ingestion hazards because of small parts	Pass/Fail	BS	N
16 CFR Part 1611	Living Supplies	Standard for the flammability of vinyl plastic film	Pass / Fail	BS	N
BS EN 71-1:2014+A1:2018	Living Supplies	Safety of toys. Mechanical and physical properties.	Visual, (0 ~ 100) %, (0 ~ 300) mm, (0 ~ 2 000) MΩ/cm, (0 ~ 100) ℃, (28 ~ 130) dB	BS	N
EN 71-1:2014+A1:2018	Living Supplies	Safety of toys. Mechanical and physical properties.	Visual, (0 ~ 100) %, (0 ~ 300) mm, (0 ~ 2 000) MΩ/cm, (0 ~ 100) ℃, (28 ~ 130) dB	BS	N

02. Chemical Test

02.025 Indoor and Other Environment

Test method	Products and materials	Standard designation	Test range	Site	Field testing

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02. Chemical Test

02.025 Indoor and Other Environment

Test method	Products and materials	Standard designation	Test range	Site	Field testing
ASTM E1645-21	Indoor and Other Environment	Standard Practice for Preparation of Dried Paint Samples by Hotplate or Microwave Digestion for Subsequent Lead Analysis	10 mg/kg or more	BS	N
KS C IEC 62321:2009	Indoor and Other Environment	Electrotechnical products－Determination of levels of six regulated substances(lead, mercury, cadmium, hexavalent chromium,polybrominated biphenyls, polybrominated diphenyl ethers)		BS	N
		- Pb	10 mg/kg or more		
		- Hg	0.1 mg/kg or more		
		- Cd	1 mg/kg or more		
		- Cr(VI)	0.1 mg/kg or more		
		- PBBs, PBDEs	each 5 mg/kg or more		
KS C IEC 62321-5 Ed. 1.0:2014	Indoor and Other Environment	Determination of certain substances in electrotechnical products - Part 5: Cadmium, lead and chromium in polymers and electronics and cadmium and lead in metals by AAS, AFS, ICP-OES and ICP-MS - Pb - Cd	10 mg/kg or more 1 mg/kg or more	BS	N
KS C IEC 62321-4:2014	Indoor and Other Environment	Determination of certain substances in electrotechnical products - Part 4: Mercury in polymers, metals and electronics by CV-AAS, CV-AFS, ICP-OES and ICP-MS	0.1 mg/kg or more	BS	N
KS C IEC 62321-7-1:2015	Indoor and Other Environment	Determination of certain substances in electrotechnical products - Part 7-1: Hexavalent chromium - Presence of hexavalent chromium (Cr(VI)) in colourless and coloured	0.1 mg/kg or more	BS	N

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02. Chemical Test

02.025 Indoor and Other Environment

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		corrosion-protected coatings on metals by the colorimetric method			
KS C IEC 62321-6:2015	Indoor and Other Environment	Determination of certain substances in electrotechnical products - Part 6: Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatograhy -mass spectometry (GC-MS)	each 5 mg/kg or more	BS	N
KS M 1991:2016	Indoor and Other Environment	Determination of phthalate plasticizers in polymer materials	each 50 mg/kg or more	BS	N
KS I ISO 16000-3:2011	Indoor and Other Environment	Indoor Air — Part 3: Determination of formaldehyde and other carbonyl compounds in indoor air and test chamber air — Active sampling method	1 $\mu g/m^3$ or more	BS	N
KS I ISO 16000-6:2011	Indoor and Other Environment	Indoor air — Part 6: Determination of volatile organic compounds in indoor and test chamber air by active sampling on Tenax TA® sorbent, thermal desorption and gas chromatography using MS or MS-FID	1 $\mu g/m^3$ or more	BS	N
KS I ISO 16000-9:2006	Indoor and Other Environment	Indoor air — Part 9: Determination of the emission of volatile organic compounds — Emission test chamber method	0.001 $mg/m^2 \cdot h$ or more	BS	N
KS I ISO 16000-11:2006	Indoor and Other Environment	Indoor air — Part 11: Determination of the emission of volatile organic compounds — Sampling, storage of samples and preparation of test specimens	-	BS	N
KS I 2007:2022	Indoor and	Determination of the emission of formaldehyde and volatile	0.001 mg/m^3 or more	BS	N

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02. Chemical Test

02.025 Indoor and Other Environment

Test method	Products and materials	Standard designation	Test range	Site	Field testing
	Other Environment	organic compounds from furniture and building related products — Large chamber method			
KS M 1998:2022	Indoor and Other Environment	Determination of the emission rate of formaldehyde and volatile organic compounds in building interior products 7. Test method-Small Chamber	0.001 $mg/m^2 \cdot h$ or more	BS	N
NIER Notice No.2023-1 (01.05.2023)	Indoor and Other Environment	Standard method of Indoor air quality ES 02131.1f Determination of emission of volatile organic compounds and formaldehyde from building materials by small-scale emission test chamber method	0.001 $mg/m^2 \cdot h$ or more	BS	N

02. Chemical Test

02.026 Textiles

Test method	Products and materials	Standard designation	Test range	Site	Field testing
KATS Notice No.2018-195(06.29.2018.)	Textiles	Safety Quality Labeling Standards Annex 16 High-visibility warning jackets 5.4. Colorfastness of base material	(1 ~ 5) grade	BS	N
AATCC TM106-2009e(2013)e3	Textiles	Colorfastness to Water: Sea	(1 ~ 5) grade	BS	N
AATCC TM107-2022	Textiles	Colorfastness to Water	(1 ~ 5) grade	BS	N
AATCC TM132-2004e3(2013)e3	Textiles	Colorfastness to Drycleaning	(1 ~ 5) grade	BS	N
AATCC TM15-2021e	Textiles	Colorfastness to Perspiration	(1 ~ 5) grade	BS	N
AATCC TM16.3-2020	Textiles	Colorfastness to Light: Xenon-arc	(1 ~ 5) grade	BS	N
AATCC TM 20-2021	Textiles	Test method for Fiber Analysis: Qualitative	-	BS	N

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02. Chemical Test

02.026 Textiles

Test method	Products and materials	Standard designation	Test range	Site	Field testing
AATCC TM 20A-2020	Textiles	Fiber Analysis: Quantitative	(0.1 ~ 100) %	BS	N
AATCC TM23-2015e(2020)	Textiles	Colorfastness to Burnt Gas Fumes	(1 ~ 5) grade	BS	N
AATCC TM61-2013e2(2020)	Textiles	Colorfastness to Laundering: Accelerated	(1 ~ 5) grade	BS	N
AATCC TM8-2016e(2022)e	Textiles	Colorfastness to Crocking: Crockmeter Method	(1 ~ 5) grade	BS	N
AATCC TM81-2022	Textiles	pH of the Water-Extract from Wet Processed Textiles	pH 1 ~ pH 14	BS	N
ASTM D2257-20	Textiles	Standard Test Method for Extractable Matter in Textiles	(0 ~ 100) %	BS	N
ASTM D629-15	Textiles	Standard Test Methods for Quantitative Analysis of Textiles	(0.1 ~ 100) %	BS	N
ISO 105-B02:2014	Textiles	Textiles - Tests for colour fastness - Part B02: Colour fastness to artificial light: Xenon arc fading lamp test	(1 ~ 8) grade	BS	N
ISO 105-C06:2010	Textiles	Textiles - Tests for colour fastness - Part C06: Colour fastness to domestic and commercial laundering	(1 ~ 5) grade	BS	N
ISO 105-C10:2006	Textiles	Textiles - Tests for colour fastness - Part C10: Colour fastness to washing with soap or soap and soda	(1 ~ 5) grade	BS	N
ISO 105-D01:2010	Textiles	Textiles - Tests for colour fastness - Part D01: Colour fastness to drycleaning using perchloroethylene solvent	(1 ~ 5) grade	BS	N
ISO 105-E01:2013	Textiles	Textiles - Tests for colour fastness - Part E01: Colour fastness to water	(1 ~ 5) grade	BS	N
ISO 105-E02:2013	Textiles	Textiles - Tests for colour fastness - Part E02: Colour fastness to sea water	(1 ~ 5) grade	BS	N
ISO 105-E04:2013	Textiles	Textiles - Tests for colour fastness - Part E04: Colour fastness to perspiration	(1 ~ 5) grade	BS	N

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02. Chemical Test

02.026 Textiles

Test method	Products and materials	Standard designation	Test range	Site	Field testing
ISO 105-X12:2016	Textiles	Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing	(1 ~ 5) grade	BS	N
ISO 1833-1:2020	Textiles	Textiles - Quantitative chemical analysis - Part 1: General principles of testing	(0.1 ~ 100) %	BS	N
ISO 1833-10:2019	Textiles	Textiles - Quantitative chemical analysis - Part 10: Mixtures of triacetate or polylactide with certain other fibres (method using dichloromethane)	(0.1 ~ 100) %	BS	N
ISO 1833-11:2017	Textiles	Textiles-Quantitative chemical analysis-Part 11: Mixtures of certain cellulose fibres with certain other fibres (method using sulfuric acid)	(0.1 ~ 100) %	BS	N
ISO 1833-12:2020	Textiles	Textiles -- Quantitative chemical analysis -- Part 12: Mixtures of acrylic, certain modacrylics, certain chlorofibres, certain elastane fibres with certain other fibres (method using dimethylformamide)	(0.1 ~ 100) %	BS	N
ISO 1833-17:2019	Textiles	Textiles -- Quantitative chemical analysis -- Part 17: Mixtures of cellulose fibres and certain fibres with chlorofibres and certain other fibres (method using concentrated sulfuric acid)	(0.1 ~ 100) %	BS	N
ISO 1833-18:2020	Textiles	Textiles — Quantitative chemical analysis -- Part 18: Mixtures of silk with wool or other animal hair (method using sulfuric acid)	(0.1 ~ 100) %	BS	N
ISO 1833-2:2020	Textiles	Textiles - Quantitative chemical analysis - Part 2: Ternary fibre mixtures	(0.1 ~ 100) %	BS	N
ISO 1833-3:2020	Textiles	Textiles - Quantitative chemical analysis - Part 3: Mixtures of	(0.1 ~ 100) %	BS	N

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02. Chemical Test

02.026 Textiles

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		acetate with certain other fibres (method using acetone)			
ISO 1833-4:2017	Textiles	Textiles-Quantitative chemical analysis-Part 4: Mixtures of certain protein fibres with certain other fibres (method using hypochlorite)	(0.1 ~ 100) %	BS	N
ISO 1833-6:2018	Textiles	Textiles -- Quantitative chemical analysis -- Part 6: Mixtures of viscose, certain types of cupro, modal or lyocell with certain other fibres (method using formic acid and zinc chloride)	(0.1 ~ 100) %	BS	N
ISO 1833-7:2017	Textiles	Textiles-Quantitative chemical analysis-Part 7: Mixtures of polyamide with certain other fibres (method using formic acid)	(0.1 ~ 100) %	BS	N
ISO 1833-8:2006	Textiles	Textiles - Quantitative chemical analysis - Part 8: Mixtures of acetate and triacetate fibres (method using acetone)	(0.1 ~ 100) %	BS	N
JIS L 1030-1:2012	Textiles	Testing methods for quantitative analysis of fibre mixtures - Part 1: Testing methods for fibre identification	-	BS	N
JIS L 1030-2:2012	Textiles	Testing methods for quantitative analysis of fibre mixtures of textiles - Part 2: Testing methods for quantitative analysis of fibre mixtures	(0.1 ~ 100) %	BS	N
KS K 0111:2022	Textiles	Measuring method for degree of mercerization of cotton: Barium activity method	100 or more	BS	N
KS K 0210:2018	Textiles	Test methods for quantitative analysis of fibre mixtures of textiles-Test methods for quantitative analysis of fibre mixtures	(0.1 ~ 100) %	BS	N

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02. Chemical Test

02.026 Textiles

Test method	Products and materials	Standard designation	Test range	Site	Field testing
KS K 0210-1:2021	Textiles	Test methods for quantitative analysis of fibre mixtures of textiles-Test methods for fibre identification	-	BS	N
KS K 0215:2019	Textiles	Test methods for man-made filament yarns 7.18 Solvent Extract	(0 ~ 100) %	BS	N
KS K 0250:2019	Textiles	Test method for nonfibrous materials in cotton: Enzyme method	(0.1 ~ 100) %	BS	N
KS K 0251:2022	Textiles	Test method for nonfibrous materials in textiles	(0.1 ~ 100) %	BS	N
KS K 0261:2018	Textiles	Testing method for labile sulfur in textile materials	-	BS	N
KS K 0309:2019	Textiles	Identification of ramie	-	BS	N
KS K 0318:2019	Textiles	Identification of flax	-	BS	N
KS K 0319:2019	Textiles	Identification of hemp	-	BS	N
KS K 0327:2021	Textiles	Test method for man-made staple fibres 6.21 Weight Loss by Washing and Solvent Extract 6.22 Weight Loss by Washing	(0 ~ 100) %	BS	N
KS K 0463:2022	Textiles	Test method for wool top 6.4 Oil and Fat Content	(0 ~ 100) %	BS	N
KS K ISO 105-X12:2016	Textiles	Textiles - Tests for colour fastness - Part X12: Colour fastness to rubbing	(1 ~ 5) grade	BS	N
KS K 0700:2019	Textiles	Test method for color fastness to light: Carbon arc method	(1 ~ 8) grade	BS	N
KS K 2618:2022	Textiles	Woven carpet, tuft carpet and tile carpet 6.5 Colorfastness of Pile Yarn	(1 ~ 5) grade	BS	N
KS K ISO 105-B02:2014	Textiles	Textiles - Tests for colour fastness - Part B02: Colour fastness to artificial light: Xenon arc fading lamp test	(1 ~ 8) grade	BS	N

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
KS K ISO 105-C06:2010	Textiles	Textiles - Tests for colour fastness - Part C06: Colour fastness to domestic and commercial laundering	(1 ~ 5) grade	BS	N
KS ISO 105-C10:2006	Textiles	Textiles - Tests for colour fastness - Part C10: Colour fastness to washing with soap or soap and soda	(1 ~ 5) grade	BS	N
KS K ISO 105-D01:2010	Textiles	Textiles - Tests for colour fastness — Part D01: Colour fastness to drycleaning using perchloroethylene solvent	(1 ~ 5) grade	BS	N
KS K ISO 105-E01:2013	Textiles	Textiles - Tests for colour fastness - Part E01: Colour fastness to water	(1 ~ 5) grade	BS	N
KS K ISO 105-E02:2013	Textiles	Textiles - Tests for colour fastness - Part E02: Colour fastness to sea water	(1 ~ 5) grade	BS	N
KS K ISO 105-E04:2013	Textiles	Textiles - Tests for colour fastness - Part E04: Colour fastness to perspiration	(1 ~ 5) grade	BS	N
KS K ISO 1833-1:2020	Textiles	Textiles—Quantitative chemical analysis —Part 1: General principles of testing	(0.1 ~ 100) %	BS	N
KS K ISO 3071:2020	Textiles	Textiles-Determination of pH of aqueous extract	pH 1 ~ pH 14	BS	N
Regulation (EU) No 1007/2011	Textiles	Textile fibre names and related labelling and marking of the fibre composition of textile products	(0.1 ~ 100) %	BS	N
BS EN ISO 14362-3:2017	Textiles	Textiles - Methods for determination of certain aromatic amines derived from azo colorants - Part 3: Detection of the use of certain azo colorants, which may release 4-aminoazobenzene	5 mg/kg or more	BS	N
BS EN 1811:2023	Textiles	Reference test method for release of nickel from all post assemblies which are	0.1 $\mu g \cdot cm^{-2} \cdot week^{-1}$ or more	BS	N

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02. Chemical Test

02.026 Textiles

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin.			
DIN 54231:2005	Textiles	Textiles-Detection of disperse Dyestuffs	20 mg/kg or more	BS	N
BS EN 12472:2020	Textiles	Method for the simulation of accelerated wear and corrosion for the detection of nickel release from coated items	0.1 μg/cm^2/week or more	BS	N
BS EN ISO 14362-1:2017	Textiles	Textiles-Methods for determination of certain aromatic amines derived from azo colorants - Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres	each 5 mg/kg or more	BS	N
ISO 14184-1:2011	Textiles	Textiles-Determination of Formaldehyde-Part 1: Free and Hydrolized Formaldehyde (Water Extraction Method)	16 mg/kg or more	BS	N
ISO 14184-2:2011	Textiles	Textiles-Determination of Formaldehyde-Part 2: Released Formaldehyde (Vapour Absorption Method)	16 mg/kg or more	BS	N
ISO 18254-1:2016	Textiles	Textiles -- Method for the detection and determination of alkylphenol ethoxylates (APEO) -- Part 1: Method using HPLC-MS	more than 30 mg/kg	BS	N
KS K 0147:2015	Textiles	Test method for determination of aryl amine level on the dyestuff and dyed products	each 5 mg/kg or more	BS	N
KS K 0147:2021	Textiles	Test method for determination of aryl amine level on the dyestuff and dyed products	each 5 mg/kg or more	BS	N
KS K 0731:2017	Textiles	Test method for the determination of extractable	each 0.1 mg/kg or more(Cd, Hg =	BS	N

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02. Chemical Test

02.026 Textiles

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		heavy metals in textiles	0.01 mg/kg or more)		
KS K 0732:2017	Textiles	Test method for the determination of pesticides in textiles	0.1 mg/kg or more	BS	N
KS K 0733:2022	Textiles	Test method for determination of the pentachlorophenol content in textiles and/or leathers	each 0.1 mg/kg or more	BS	N
KS K 0734:2019	Textiles	Test method for determination of arylamines content in polyester textiles	each 5 mg/kg or more	BS	N
KS K 0735:2017	Textiles	Test method for the determination of carcinogenic dyes content in textiles	each 20 mg/kg or more	BS	N
KS K 0736:2019	Textiles	Test method for determination of allergenic disperse dyes content in textiles	each 20 mg/kg or more	BS	N
KS K 0737:2019	Textiles	Test method for determination of selected organotin compounds content in textiles	each 0.1 mg/kg or more	BS	N
KS K 0739:2017	Textiles	Textile - Methods for determination of certain aromatic amines derived from azo colorants - Part 3: Detection of the use of certain azo colorants, which may release 4-aminoazobenzene	5 mg/kg or more	BS	N
KS K 0853:2017	Textiles	Test method for determination of nickel release from products intended to come into direct and prolonged contact with the skin : Alternate exposure	0.1 μg/cm^2/week or more	BS	N
KS K 0854:2017	Textiles	Test method for simulation of wear and corrosion for the detection of nickel release from coated items : Alternate exposure	0.1 μg/cm^2/week or more	BS	N
KS G ISO 24348:2011	Textiles	Ophthalmic optics - Spectacle frames - Method for the simulation of wear and	0.1 μg/cm^2/week or more	BS	N

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02. Chemical Test

02.026 Textiles

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		detection of nickel release from metal and combination spectacle frames			
KS K ISO 14184-1:1998	Textiles	Textiles－Determination of formaldehyde－Part 1 : Free and hydrolized formaldehyde(water extraction method)	16 mg/kg or more	BS	N
KS K ISO 14184-2:2011	Textiles	Textiles - Determination of formaldehyde - Part 2: Released formaldehyde(vapour absorption method)	16 mg/kg or more	BS	N
KATS Notice No.2018-195(06.29.2018.)	Textiles	Safety Confirmation Standards Annex 1 Textile Products for Domestic 5.1 pH	pH 1 ~ pH 14	BS	N
		5.2 Formaldehyde	16 mg/kg or more		
		5.3 Aryl Amine	each 5 mg/kg or more		
		5.5 Orgno Tin Compounds	each 0.1 mg/kg or more		
		5.6 Dimethylfumarate	0.05 mg/kg or more		
		5.7 Flame retardants 5.7.1 PBB, PentaBDE, OctaBDE	each 5 mg/kg or more		
		5.7.2 TDBPP(TRIS)	5 mg/kg or more		
		5.10 Allergic dyes	each 20 mg/kg or more		
		5.11 Nickel release	0.1 μg/cm²/week or more		
KATS Notice No.2021-489 (10.27.2021.)	Textiles	Safety Confirmation Standards Annex 1 Textile Products for Domestic		BS	N
		5.1 Formaldehyde	16 mg/kg or more		
		5.2 Aryl Amine	each 5 mg/kg or more		
		5.3 Orgno Tin Compounds	each 0.1 mg/kg or more		
		5.4 Dimethylfumarate	0.05 mg/kg or more		
		5.5 Flame retardants 5.5.1 PentaBDE, OctaBDE	each 5 mg/kg or		

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02. Chemical Test

02.026 Textiles

Test method	Products and materials	Standard designation	Test range	Site	Field testing
			more		
		5.5.2 TDBPP(TRIS)	5 mg/kg or more		
		5.6 Allergic dyes	each 20 mg/kg or more		
		5.7 pH	pH 1 ~ pH 14		
		5.8 Nickel release	0.1 $\mu g/cm^2$/week or more		
BS EN 16711-1:2015	Textiles	Textiles. Determination of metal content. Part 1: Determination of metals using microwave digestion. - Antimony - Arsenic - Lead - Cadmium - Chromium - Cobalt - Copper - Nickel - Barium - Selenium - Tin - Silver - Boron - Mercury	 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 1 mg/kg or more	BS	N
BS EN 17132:2019	Textiles	Textiles and textile products. Determination of Polycyclic AromaticHydrocarbons (PAH), method using gas chromatography	1 mg/kg or more	BS	N
DIN EN 17137:2019-02	Textiles	Textiles. Determination of the content of compounds based on chlorobenzenes and chlorotoluenes	0.5 mg/kg or more	BS	N
GB/T 20386-2006	Textiles	Textiles — Determination of the content of ortho-phenylphenol	10 mg/kg or more	BS	N
GB/T 33273-2016	Textiles	Textiles－Determination of triclosan residues	10 mg/kg or more	BS	N
GB/T 35894-2018	Textiles	Determination of 10 forbidden glycol ethers and esters in cosmetics－GC-MS	10 mg/kg or more	BS	N
GB/T 36940-2018	Textiles	Textiles－Determination of certain	20 mg/kg or more	BS	N

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02. Chemical Test

02.026 Textiles

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		benzotriazole compounds			
ISO 17881-1:2016	Textiles	Textiles -- Determination of certain flame retardants -- Part 1: Brominated flame retardants	10 mg/kg or more	BS	N
ISO 18254-2:2018	Textiles	Textiles – Method for the detection and determination of alkylphenol ethoxylates(APEO) – Part 2: Method using NPLC	30 mg/kg or more	BS	N
ISO 21084:2019	Textiles	Textiles – Method for determination of alkylphenols(AP)	5 mg/kg or more	BS	N
KS K ISO 18254-2:2018	Textiles	Textiles -- Method for the detectionand determination of alkylphenolethoxylates(APEO) -- Part 2: Method using NPLC	30 mg/kg or more	BS	N
KS K ISO 21084:2019	Textiles	Textiles -- Method for determination of alkylphenols(AP)	5 mg/kg or more	BS	N
KS M 9722:2017	Textiles	Determination of PFOS/PFOA inchemical products	0.05 mg/kg or more (1.0 $\mu g/m^2$ or more)	BS	N
SN/T 2379-2009	Textiles	Determination of Bisphenol A in Polycarbonate Resin and Its Products - Gas Chromatography -Mass Spectrometry	10 mg/kg or more	BS	N
FITI TM E 0006:2020 (in-house method)	Textiles	Textiles — Determination of certainBrominated flame retardants (method based on modified ISO 17881-1)	10 mg/kg or more	BS	N
FITI TM E 0007:2020 (in-house method)	Textiles	Textiles —Determination of certainorganophosphorous flame retardants (method based on modified GB/T 36922)	10 mg/kg or more	BS	N
FITI TM E 0008:2020 (in-house method)	Textiles	Textiles — Determination of volatileorganic compounds(method based on modified KS M 1993 Annex B)	1 mg/kg or more	BS	N

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02. Chemical Test

02.026 Textiles

Test method	Products and materials	Standard designation	Test range	Site	Field testing
FITI TM E 0009:2020 (in-house method)	Textiles	Textiles – Determination of Polycyclic Aromatic Hydrocarbons(PAHs)(method based on modified BS EN 17132)	1 mg/kg or more	BS	N
FITI TM E 0010:2020 (in-house method)	Textiles	Textiles – Determination of thiourea	10 mg/kg or more	BS	N
FITI TM E 0011:2020 (in-house method)	Textiles	Textiles – Determination of 2-(2-aminoethylamino)ethanol[AEEA]	25 mg/kg or more	BS	N
ISO 22818:2021	Textiles	Textiles -- Determination of short-chain chlorinated paraffins (SCCP) and middle-chain chlorinated paraffins (MCCP) in textile products out of different matrices by use of gas chromatography negative ion chemical ionization mass spectrometry (GC-NCI-MS)	SCCP: 50 mg/kg or more MCCP: 100 mg/kg or more	BS	N
GB/T 40909-2021	Textiles	Textiles—Determination of methylcyclosiloxane residue	10 mg/kg or more	BS	N
PD CEN/TS 15968:2010	Textiles	Determination of extractable perfluorooctanesulphonate(PFOS) in coated and impregnated solid articles, liquids and fire fighting foams - Method for sampling, extraction and analysis by LCqMS or LC-tandem/MS	1.0 μg/m^2 or more	BS	N

02. Chemical Test

02.027 Leather

Test method	Products and materials	Standard designation	Test range	Site	Field testing
KS M 6882:2020	Leather	Testing method for leathers 7.2 Water Content 7.3 Total Ash 7.4 Hexane Extraction	 (0.1 ~ 100) % (0.1 ~ 100) % (0.1 ~ 100) %	BS	N

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02. Chemical Test

02.027 Leather

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		7.5 Water-Soluble Material 7.6 Water-Soluble Ash 7.7 Hide Substance (Protein Fiber) 7.8 Degree Og Tannage 7.9 chromium content 7.10 pH	(0.1 ~ 100) % (0.1 ~ 100) % (0.1 ~ 100) % (1 ~ 100) % - pH 1 ~ pH 14		
MOTIE Notice No.2015-109(06.04.2015.)	Leather	Supplier's Declaration Standards Annex 1 Leather Products for Children		BS	N
		5.2 Safety requirement of Hazardous materials			
		5.2.1 Formaldehyde content	16 mg/kg or more		
		5.2.2 Chlorinated phenols content	0.1 mg/kg or more		
		5.2.3 Chromium(VI) content	1.0 mg/kg or more		
		5.2.4 Dimethylfuramate	0.05 mg/kg or more		
		5.2.5 Aryl amine content	each 5 mg/kg or more		
		5.2.6 Hazardous elements content			
		- Total Cadmium content	10 mg/kg or more		
		- Total Lead content	10 mg/kg or more		
		5.2.7 Organotin compounds content	each 0.1 mg/kg or more		
		5.2.8 The total content of Phthalate plasticizers	each 0.01 % or more		
		5.2.9 Nickel elution content	0.1 μg/cm^2/week or more		
MOTIE Notice No.2017-017(01.31.2017.)	Leather	Supplier's Declaration Standards Annex 1 Leather Products for Children		BS	N
		5.2 Safety requirement of Hazardous materials			
		5.2.1 Formaldehyde content	16 mg/kg or more		
		5.2.2 Chlorinated phenols content	0.1 mg/kg or more		
		5.2.3 Chromium(VI) content	1.0 mg/kg or more		
		5.2.4 Dimethylfuramate	0.05 mg/kg or more		
		5.2.5 Aryl amine content	each 5 mg/kg or		

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02. Chemical Test

02.027 Leather

Test method	Products and materials	Standard designation	Test range	Site	Field testing
			more		
		5.2.6 Hazardous elements content	-		
		- Cd	10 mg/kg or more		
		- Pb	10 mg/kg or more		
		5.2.7 Organotin compounds content	each 0.1 mg/kg or more		
		5.2.8 The total content of Phthalate plasticizers	each 0.01 % or more		
		5.2.9 Nickel elution content	0.1 μg/cm^2/week or more		
MOTIE Notice No.2018-031(03.05.2018.)	Leather	Supplier's Declaration Standards Annex 1 Leather Products for Children		BS	N
		5.2 Safety requirement of Hazardous materials			
		5.2.1 Formaldehyde content	16 mg/kg or more		
		5.2.2 Chlorinated phenols content	0.1 mg/kg or more		
		5.2.3 Chromium(VI) content	1.0 mg/kg or more		
		5.2.4 Dimethylfuramate	0.05 mg/kg or more		
		5.2.5 Aryl amine content	each 5 mg/kg or more		
		5.2.6 Hazardous elements content	-		
		- Total Cadmium content	10 mg/kg or more		
		- Total Lead content	10 mg/kg or more		
		5.2.7 Organotin compounds content	each 0.1 mg/kg or more		
		5.2.8 The total content of Phthalate plasticizers	each 0.01 % or more		
		5.2.9 Nickel elution content	0.1 μg/cm^2/week or more		
ISO 17070:2015	Leather	Leather-Chemical Tests-Determination of tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and pentachlorophenol content	0.1 mg/kg or more	BS	N
ISO 17075-1:2017	Leather	Leather-Chemical determination	1.0 mg/kg or more	BS	N

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02. Chemical Test

02.027 Leather

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		of chromium(VI) content in leather - Part 1: Colorimetric method			
KS M ISO 17075-1:2017	Leather	Leather -- Chemical determination of chromium(VI) content in leather -- Part 1: Colorimetric method	1.0 mg/kg or more	BS	N
ISO 17234-1:2020	Leather	Leather -- Chemical tests-for the determination of certain azo colourants in dyed leathers -- Part1: Determination of certain aromatic amines derived from azo colourants	each 5 mg/kg or more	BS	N
KS M ISO 17234-1:2015	Leather	Leather — Chemical tests for the determination of certain azo colorants in dyed leathers — Part 1: Determination of certain aromatic amines derived from azo colorants	each 5 mg/kg or more	BS	N
ISO 17234-2:2011	Leather	Leather-Chemical tests-determination of certain azo colourants in dyed leathers - Part2: Determination of 4-aminoazobenzene	5 mg/kg or more	BS	N
KS M ISO 17234-2:2011	Leather	Leather — Chemical tests for the determination of certain azo colorants in dyed leathers — Part 2: Determination of 4-aminoazobenzene	5 mg/kg or more	BS	N
ISO 17226-1:2021	Leather	Leather-Chemical determination of formaldehyde content -Part 1:Method using high performance liquid chromatography	5 mg/kg or more	BS	N
ISO 17226-2:2018	Leather	Leather-Chemical determination of formaldehyde content -Part 2:Method using colorimetric analysis	16 mg/kg or more	BS	N
ISO/TS 16186:2012	Leather	Footwear -- Critical substances potentially present in footwear and footwear	0.05 mg/kg or more	BS	N

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02. Chemical Test

02.027 Leather

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		components -- Test method to quantitatively determine dimethyl fumarate (DMFU) in footwear materials			
ISO 16186:2021	Leather	Footwear − Critical substances potentially present in footwear and footwear components − Determination of dimethyl fumarate (DMFU)	0.05 mg/kg or more	BS	N
KS M ISO 17075:2007	Leather	Leather − Chemical tests − Determination of chromium(VI) content	1.0 mg/kg or more	BS	N
KS M ISO 17226-1:2018	Leather	Leather - Chemical determination of formaldehyde content - Part 1: Method using high performance liquid chromatography	5 mg/kg or more	BS	N
KS M ISO 17226-2:2018	Leather	Leather - Chemical determination of formaldehyde content - Part 2: Method using colorimetric analysis	16 mg/kg or more	BS	N
KS M ISO 17226-3:2011	Leather	Leather - Chemical determination of formaldehyde content - Part 3 : Determination of formaldehyde emissions from leather	5 mg/kg or more	BS	N
KATS Notice No.2018-195(06.29.2018.)	Leather	Safety Confirmation Standards Annex 3 Leather Products 5.2.1 Formaldehyde content	16 mg/kg or more	BS	N
		5.2.2 Chlorinated phenols content	0.1 mg/kg or more		
		5.2.3 Chromium(VI) content	1.0 mg/kg or more		
		5.2.4 Dimethylfuramate	0.05 mg/kg or more		
		5.2.5 Aryl amine content	each 5 mg/kg or more		
		5.2.7 Organotin compounds content	each 0.1 mg/kg or more		

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02. Chemical Test

02.027 Leather

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		5.2.9 Nickel elution content	0.1 $\mu g/cm^2$/week or more		

02. Chemical Test

02.033 Household Goods

Test method	Products and materials	Standard designation	Test range	Site	Field testing
MOTIE Notice No.2015-108(06.04.2015.)	Household Goods	Safety Confirmation Standards Annex 15 Thermal pack for Children		BS	N
		6.4 Harmful element Elution			
		- Antimony,	10 mg/kg or more		
		- Arsenic,	10 mg/kg or more		
		- Barium,	10 mg/kg or more		
		- Chromium,	10 mg/kg or more		
		- Mercury,	10 mg/kg or more		
		- Selenium	10 mg/kg or more		
		6.5 Hazardous elements content			
		- Total Lead content	10 mg/kg or more		
		- Total Cadmium content	10 mg/kg or more		
		6.6 The total content of Phthalates	each 0.01 % or more		
KATS Notice No.2017-032(02.08.2017.)	Household Goods	Safety confirmation Annex 68 Warmer Pack		BS	N
		6.4.1 Lead	10 mg/kg or more		
		6.4.2 Cadmium	10 mg/kg or more		
		6.4.3 Phthalates	each 0.01 % or more		
		6.4.4 Soluble hazardous elements	-		
		- Antimony,	10 mg/kg or more		
		- Arsenic,	10 mg/kg or more		
		- Barium,	10 mg/kg or more		
		- Chromium,	10 mg/kg or more		
		- Mecury,	10 mg/kg or more		
		- Selenium	10 mg/kg or more		

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02. Chemical Test

02.033 Household Goods

Test method	Products and materials	Standard designation	Test range	Site	Field testing
MOTIE Notice No.2015-107(06.04.2015.)	Household Goods	Safety Certification standards Annex 1 Aquatic Equipment for Children		BS	N
		Part 1 Inflatable aquatic equipment			
		5.8 Harmful elements elution			
		- As	10 mg/kg or more		
		- Cd	10 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	10 mg/kg or more		
		5.9 Phthalate plasticizers	each 0.01 % or more		
		5.11 The total content of Hazardous elements	each 10 mg/kg or more		
		Part 2 Buoyant aids to be worn			
		6.16.3 Harmful elements elution			
		- As	10 mg/kg or more		
		- Cd	10 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	10 mg/kg or more		
		6.16.4 Phthalate plasticizers	each 0.01 % or more		
		6.16.6 Hazardous elements content Part 3 Requirement and test methods for buoyant device to be held	10 mg/kg or more		
		6.11.2 Harmful elements elution			
		- As	10 mg/kg or more		
		- Cd	10 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	10 mg/kg or more		
		6.11.3 The total content of Phthalate plasticizers	each 0.01 % or more		
		6.11.5 The total content of hazardous elements	10 mg/kg or more		
MOTIE Notice No.2015-107(06.04.2015.)	Household Goods	Safety Certification standards Annex 4 BB Guns for Children		BS	N
		5.4.1 Harmful elements elution			
		- Sb	10 mg/kg or more		
		- As	10 mg/kg or more		
		- Ba	10 mg/kg or more		

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02. Chemical Test

02.033 Household Goods

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		- Cd	10 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	10 mg/kg or more		
		- Hg	10 mg/kg or more		
		- Se	10 mg/kg or more		
		5.4.2 Harmful elements content	-		
		- Total Lead	10 mg/kg or more		
		- Total Cadmium	10 mg/kg or more		
		5.4.3 Phthalate plasticizers	each 0.01 % or more		
KATS Notice No.2016-600(12.23.2016.)	Household Goods	Safety Certification Standard Annex 7 Aquatic Equipment		BS	N
		Part 1. Inflatable aquatic equipment			
		5.8 Elution of Heavy metal			
		- Pb	10 mg/kg or more		
		- As	10 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Cd	10 mg/kg or more		
		5.10 Lead content			
		5.10.1 lead content in Metal	10 mg/kg or more		
		5.10.2 lead content in Polymer	10 mg/kg or more		
		5.10.3 lead content in paint and similar coating	10 mg/kg or more		
		5.10.4 lead content in Other materials	10 mg/kg or more		
		Part 2. Inflatable Boats			
		5.14 Elution of Heavy metal			
		- Pb	10 mg/kg or more		
		- As	10 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Cd	10 mg/kg or more		
		5.16 Lead content			
		5.16.1 lead content in Metal	10 mg/kg or more		
		5.16.2 lead content in Polymer	10 mg/kg or more		
		5.16.3 lead content in paint and similar coating	10 mg/kg or more		
		5.16.4 lead content in Other materials	10 mg/kg or more		
		Part 3. Buoyant aids to be worn			

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02. Chemical Test

02.033 Household Goods

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		6.16.3 Elution of Heavy metal			
		- Pb	10 mg/kg or more		
		- As	10 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Cd	10 mg/kg or more		
		6.16.5 Lead content			
		6.16.5.1 lead content in Metal	10 mg/kg or more		
		6.16.5.2 lead content in Polymer	10 mg/kg or more		
		6.16.5.3 lead content in paint and similar coating	10 mg/kg or more		
		6.16.5.4 lead content in Other materials	10 mg/kg or more		
		Part 4. Requirement and test methods for buoyant devices to be held			
		6.11.2 Elution of Heavy metal			
		- Pb	10 mg/kg or more		
		- As	10 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Cd	10 mg/kg or more		
		6.11.4 Lead content			
		6.11.4.1 lead content in Metal	10 mg/kg or more		
		6.11.4.2 lead content in Polymer	10 mg/kg or more		
		6.11.4.3 lead content in paint and coating	10 mg/kg or more		
		6.11.4.4 lead content in Other materials	10 mg/kg or more		
		Annex 7-A Phthalate Plasticizer	each 0.01 % or more		
CPSC-CH-E1003-09.1:2011	Household Goods	Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011	10 mg/kg or more	BS	N
CPSC-CH-E1002-08.3:2012	Household Goods	Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children`s Products, Rivision November 15, 2012	10 mg/kg or more	BS	N
CPSC-CH-E1001-08.3:2012	Household	Standard Operating Procedure	10 mg/kg or more	BS	N

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02. Chemical Test

02.033 Household Goods

Test method	Products and materials	Standard designation	Test range	Site	Field testing
	Goods	for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), Rivision November 15, 2012			
CPSC-CH-C1001-09.4:2018	Household Goods	Standard Operation Procedure for Determination of Phthalates. January, 17, 2018	each 0.005 % or more	BS	N
KATS Notice No.2018-195(06.29.2018.)	Household Goods	Safety Confirmation Standards Annex 8 Glass Frame 3.1 Nickel release	0.1 μg/cm^2/week or more	BS	N
KATS Notice No.2021-136(05.26.2021.)	Household Goods	Safety Confirmation Standards Annex 8 Glass Frame 4.1 Nickel release	0.1 μg/cm^2/week or more	BS	N
KATS Notice No.2018-195(06.29.2018.)	Household Goods	Safety Confirmation Standards Annex 22 Metal Jewelry in contact with skin 4.2.1 Nickel release	0.1 μg/cm^2/week or more	BS	N

02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
MOTIE Notice No.2017-016(01.31.2017.)	Children's Product	Safety Confirmation Standards Annex 1 Textile Products for Infant	-	BS	N
		5.2.1 Formaldehyde	16 mg/kg or more		
		5.2.2 Organo Tin Compounds	each 0.1 mg/kg or more		
		5.2.3 Aryl Amine	each 5 mg/kg or more		
		5.2.4 Phthalate plasticizers	each 0.01 % or more		
		5.2.5 Flame retardants			
		5.2.5.1 PentaBDE, OctaBDE	each 5 mg/kg or more		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		5.2.5.2 TDBPP[tri(2,3-dibromopropyl)phosphate]	5 mg/kg or more		
		5.2.6 pH	pH 1 ~ pH 14		
		5.2.7 Total Lead content	10 mg/kg or more		
		5.2.8 Total Cadmium content	10 mg/kg or more		
		5.2.9 Allergic dyes	each 20 mg/kg or more		
		5.2.10 Nickel release	0.1 μg/cm²/week or more		
		5.2.11 Nonyl Phenols			
		5.2.11.1 NP(Nonylphenol)	5 mg/kg or more		
		5.2.11.2 NPEO(Nonylphenolethylates)	30 mg/kg or more		
		5.2.12 Dimethyl fumarate	0.05 mg/kg or more		
MOTIE Notice No.2018-032(03.05.2018.)	Children's Product	Safety Confirmation Standards Annex 1 Textile Products for Infant	-	BS	N
		5.2.1 Formaldehyde	16 mg/kg or more		
		5.2.2 Organo Tin Compounds	each 0.1 mg/kg or more		
		5.2.3 Aryl Amine	each 5 mg/kg or more		
		5.2.4 Phthalate plasticizers	each 0.01 % or more		
		5.2.5 Flame retardants			
		5.2.5.1 PentaBDE, OctaBDE	each 5 mg/kg or more		
		5.2.5.2 TDBPP[tri(2,3-dibromopropyl)phosphate]	5 mg/kg or more		
		5.2.6 pH	pH 1 ~ pH 14		
		5.2.7 Total Lead content	10 mg/kg or more		
		5.2.8 Total Cadmium content	10 mg/kg or more		
		5.2.9 Allergic dyes	each 20 mg/kg or more		
		5.2.10 Nickel release	0.1 μg/cm²/week or more		
		5.2.11 Nonyl Phenols			
		5.2.11.1 NP(Nonylphenol)	5 mg/kg or more		
		5.2.11.2 NPEO(Nonylphenolethylates)	30 mg/kg or more		
		5.2.12 Dimethyl fumarate	0.05 mg/kg or more		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
MOTIE Notice No.2021-171(10.27.2021.)	Children's Product	Safety Confirmation Standards Annex 1 Textile Products for Infant	-	BS	N
		6.2.1 Formaldehyde	16 mg/kg or more		
		6.2.2 Organo Tin Compounds	each 0.1 mg/kg or more		
		6.2.3 Aryl Amine	each 5 mg/kg or more		
		6.2.4 Phthalate plasticizers	each 0.01 % or more		
		6.2.5 Flame retardants			
		6.2.5.1 PentaBDE, OctaBDE	each 5 mg/kg or more		
		6.2.5.2 TDBPP	5 mg/kg or more		
		6.2.6 pH	pH 1 ~ pH 14		
		6.2.7 Total Lead content	10 mg/kg or more		
		6.2.8 Total Cadmium content	10 mg/kg or more		
		6.2.9 Allergic dyes	each 20 mg/kg or more		
		6.2.10 Nickel release	0.1 $\mu g/cm^2$/week or more		
		6.2.11 Nonyl Phenols			
		6.2.11.1 NP(Nonylphenol)	5 mg/kg or more		
		6.2.11.2 NPEO(Nonylphenolethylates)	30 mg/kg or more		
MOTIE Notice No.2017-017(01.31.2017.)	Children's Product	Supplier's Declaration Standards Annex 15 Textile Products for children		BS	N
		5.2.1 pH	pH 1 ~ pH 14		
		5.2.2 Formaldehyde	16 mg/kg or more		
		5.2.3 Aryl Amine	each 5 mg/kg or more		
		5.2.4 Phthalate plasticizers	each 0.01 % or more		
		5.2.5 Organo Tin Compounds	each 0.1 mg/kg or more		
		5.2.6 Flame retardants	-		
		5.2.6.1 PentaBDE, OctaBDE	each 5 mg/kg or more		
		5.2.6.2 TDBPP(TRIS)	5 mg/kg or more		
		5.2.7 Total Lead content	10 mg/kg or more		
		5.2.8 Total Cadmium content	10 mg/kg or more		
		5.2.9 Allergic dyes	each 20 mg/kg or		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
			more		
		5.2.10 Nickel release	0.1 μg/cm²/week or more		
		5.2.11 Nonyl Phenols	-		
		5.2.11.1 NP(Nonylphenol)	5 mg/kg or more		
		5.2.11.2 NPEO(Nonylphenolethylates)	30 mg/kg or more		
		5.2.12 Dimethyl fumarate	0.05 mg/kg or more		
MOTIE Notice No.2018-031(03.05.2018.)	Children's Product	Supplier's Declaration Standards Annex 15 Textile Products for children		BS	N
		5.2.1 pH	pH 1 ~ pH 14		
		5.2.2 Formaldehyde	16 mg/kg or more		
		5.2.3 Aryl Amine	each 5 mg/kg or more		
		5.2.4 Phthalate plasticizers	each 0.01 % or more		
		5.2.5 Organo Tin Compounds	each 0.1 mg/kg or more		
		5.2.6 Flame retardants	-		
		5.2.6.1 PentaBDE, OctaBDE	each 5 mg/kg or more		
		5.2.6.2 TDBPP(TRIS)	5 mg/kg or more		
		5.2.7 Total Lead content	10 mg/kg or more		
		5.2.8 Total Cadmium content	10 mg/kg or more		
		5.2.9 Allergic dyes	each 20 mg/kg or more		
		5.2.10 Nickel release	0.1 μg/cm²/week or more		
		5.2.11 Nonyl Phenols	-		
		5.2.11.1 NP(Nonylphenol)	5 mg/kg or more		
		5.2.11.2 NPEO(Nonylphenolethylates)	30 mg/kg or more		
		5.2.12 Dimethyl fumarate	0.05 mg/kg or more		
MOTIE Notice No.2021-171(10.27.2021.)	Children's Product	Supplier's Declaration Standards Annex 15 Textile Products for children		BS	N
		6.2.1 pH	pH 1 ~ pH 14		
		6.2.2 Formaldehyde	16 mg/kg or more		
		6.2.3 Aryl Amine	each 5 mg/kg or more		
		6.2.4 Phthalate plasticizers	each 0.01 % or more		

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02. Chemical Test

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		6.2.5 Organo Tin Compounds	each 0.1 mg/kg or more		
		6.2.6 Flame retardants	-		
		6.2.6.1 PentaBDE, OctaBDE	each 5 mg/kg or more		
		6.2.6.2 TDBPP(TRIS)	5 mg/kg or more		
		6.2.7 Total Lead content	10 mg/kg or more		
		6.2.8 Total Cadmium content	10 mg/kg or more		
		6.2.9 Allergic dyes	each 20 mg/kg or more		
		6.2.10 Nickel release	0.1 $\mu g/cm^2$/week or more		
		6.2.11 Nonyl Phenols	-		
		6.2.11.1 NP(Nonylphenol)	5 mg/kg or more		
		6.2.11.2 NPEO(Nonylphenolethylates)	30 mg/kg or more		
MOTIE Notice No.2015-109(06.04.2015.)	Children's Product	Supplier's Declaration Standards Annex 11 Children's Jewelry		BS	N
		5.3 Harmful elements Elution			
		- Sb	10 mg/kg or more		
		- As	10 mg/kg or more		
		- Ba	10 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Hg	10 mg/kg or more		
		- Se	10 mg/kg or more		
		- Pb	10 mg/kg or more		
		- Cd	10 mg/kg or more		
		5.4 Hazardous element content			
		- Pb	10 mg/kg or more		
		- Cd	10 mg/kg or more		
		5.5 Nickel release	0.1 $\mu g/cm^2$/week or more		
		5.6 Phthalate plasticizer	each 0.01 % or more		
MOTIE Notice No.2019-201 (12.03.2019.)	Children's Product	Common Safety Standard for Children's Product	-	BS	N
		4.1.1 Extraction of hazardous elements	-		
		- Antimoni	10 mg/kg or more		
		- Arsenic	10 mg/kg or more		
		- Barium	10 mg/kg or more		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		- Cadmium	10 mg/kg or more		
		- Chromium	10 mg/kg or more		
		- Lead	10 mg/kg or more		
		- Mercury	10 mg/kg or more		
		- Selenium	10 mg/kg or more		
		4.1.3 hazardous elements content	-		
		- Total Lead content	10 mg/kg or more		
		- Total Cadmium content	10 mg/kg or more		
		4.1.3 Phthalate plasticizers	each 0.01 % or more		
		4.1.5 Formaldehyde	16 mg/kg or more		
		4.1.6 Aryl Amine	each 5 mg/kg or more		
		4.1.7 pH	pH 1 ~ pH 14		
MOTIE Notice No.2021-132 (07.19.2021.)	Children's Product	Common Safety Standard for Children's Product	-	BS	N
		4.1.1 Extraction of hazardous elements	-		
		- Antimoni	10 mg/kg or more		
		- Arsenic	10 mg/kg or more		
		- Barium	10 mg/kg or more		
		- Cadmium	10 mg/kg or more		
		- Chromium	10 mg/kg or more		
		- Lead	10 mg/kg or more		
		- Mercury	10 mg/kg or more		
		- Selenium	10 mg/kg or more		
		4.1.3 hazardous elements content	-		
		- Total Lead content	10 mg/kg or more		
		- Total Cadmium content	10 mg/kg or more		
		4.1.3 Phthalate plasticizers	-		
		- DBP	0.01 % or more		
		- BBP	0.01 % or more		
		- DEHP	0.01 % or more		
		- DnOP	0.01 % or more		
		- DINP	0.01 % or more		
		- DIDP	0.01 % or more		
		- DIBP	0.01 % or more		
		4.1.5 Formaldehyde	16 mg/kg or more		
		4.1.6 Aryl Amine	each 5 mg/kg or more		

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02. Chemical Test

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		4.1.7 pH	pH 1 ~ pH 14		
MOTIE Notice No.2021-229 (12.29.2021.)	Children's Product	Common Safety Standard for Children's Product	-	BS	N
		4.1.1 Extraction of hazardous elements	-		
		- Antimoni	10 mg/kg or more		
		- Arsenic	10 mg/kg or more		
		- Barium	10 mg/kg or more		
		- Cadmium	10 mg/kg or more		
		- Chromium	10 mg/kg or more		
		- Lead	10 mg/kg or more		
		- Mercury	10 mg/kg or more		
		- Selenium	10 mg/kg or more		
		4.1.3 hazardous elements content	-		
		- Total Lead content	10 mg/kg or more		
		- Total Cadmium content	10 mg/kg or more		
		4.1.3 Phthalate plasticizers	-		
		- DBP	0.01 % or more		
		- BBP	0.01 % or more		
		- DEHP	0.01 % or more		
		- DnOP	0.01 % or more		
		- DINP	0.01 % or more		
		- DIDP	0.01 % or more		
		- DIBP	0.01 % or more		
		4.1.5 Formaldehyde	16 mg/kg or more		
		4.1.6 Aryl Amine	each 5 mg/kg or more		
		4.1.7 pH	pH 1 ~ pH 14		
MOTIE Notice No.2022-220 (12.14.2022.)	Children's Product	Common Safety Standard for Children's Product	-	BS	N
		4.1.1 Extraction of hazardous elements	-		
		- Antimoni	10 mg/kg or more		
		- Arsenic	10 mg/kg or more		
		- Barium	10 mg/kg or more		
		- Cadmium	10 mg/kg or more		
		- Chromium	10 mg/kg or more		
		- Lead	10 mg/kg or more		
		- Mercury	10 mg/kg or more		
		- Selenium	10 mg/kg or more		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		4.1.2 hazardous elements content (B.5 except screening)	-		
		- Total Lead content	10 mg/kg or more		
		- Total Cadmium content	10 mg/kg or more		
		4.1.3 Phthalate plasticizers	-		
		- DEHP	0.01 % or more		
		- DBP	0.01 % or more		
		- BBP	0.01 % or more		
		- DINP	0.01 % or more		
		- DIDP	0.01 % or more		
		- DnOP	0.01 % or more		
		- DIBP	0.01 % or more		
		4.1.5 Formaldehyde	16 mg/kg or more		
		4.1.6 Aryl Amine	each 5 mg/kg or more		
		4.1.7 pH	pH 1 ~ pH 14		
MOTIE Notice No.2017-016(01.31.2017.)	Children's Product	Safety Confirmation Standards Annex 6 Toys Part 4. Toxic Chemicals		BS	N
		4. Requirements			
		4.1 Harmful elements Elution Category 1			
		- Sb	10 mg/kg or more		
		- As	0.1 mg/kg or more		
		- Ba	10 mg/kg or more		
		- Cd	0.1 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	1 mg/kg or more		
		- Hg	0.1 mg/kg or more		
		- Se	10 mg/kg or more		
		- Cu	10 mg/kg or more		
		- Ni	10 mg/kg or more		
		- Zn	10 mg/kg or more		
		- Al	10 mg/kg or more		
		- Cr^{3+}	5 mg/kg or more		
		- Cr^{6+}	0.001 mg/kg or more		
		- B	10 mg/kg or more		
		- Co	1 mg/kg or more		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		- Mn	10 mg/kg or more		
		- Sr	10 mg/kg or more		
		- Sn	10 mg/kg or more		
		- Organic tin	0.1 mg/kg or more		
		Category 2			
		- Sb	1 mg/kg or more		
		- As	0.1 mg/kg or more		
		- Ba	10 mg/kg or more		
		- Cd	0.1 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	1 mg/kg or more		
		- Hg	0.1 mg/kg or more		
		- Se	1 mg/kg or more		
		- Cu	10 mg/kg or more		
		- Ni	5 mg/kg or more		
		- Zn	10 mg/kg or more		
		- Al	10 mg/kg or more		
		- Cr^{3+}	5 mg/kg or more		
		- Cr^{6+}	0.001 mg/kg or more		
		- B	10 mg/kg or more		
		- Co	1 mg/kg or more		
		- Mn	10 mg/kg or more		
		- Sr	10 mg/kg or more		
		- Sn	10 mg/kg or more		
		- Organic tin	0.1 mg/kg or more		
		Category 3			
		- Sb	10 mg/kg or more		
		- As	10 mg/kg or more		
		- Ba	10 mg/kg or more		
		- Cd	5 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	10 mg/kg or more		
		- Hg	10 mg/kg or more		
		- Se	10 mg/kg or more		
		- Cu	10 mg/kg or more		
		- Ni	10 mg/kg or more		
		- Zn	10 mg/kg or more		
		- Al	10 mg/kg or more		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		- Cr^{3+}	5 mg/kg or more		
		- Cr^{6+}	0.001 mg/kg or more		
		- B	10 mg/kg or more		
		- Co	10 mg/kg or more		
		- Mn	10 mg/kg or more		
		- Sr	10 mg/kg or more		
		- Sn	10 mg/kg or more		
		- Organic tin	0.1 mg/kg or more		
		4.2 Lead	10 mg/kg or more		
		4.3 Cadmium	10 mg/kg or more		
		4.4 Nickel Elution Content	0.1 $\mu g/cm^2$/week or more		
		4.5 Phthalate plasticizers	each 0.01 % or more		
MOTIE Notice No.2020-229(12.30.2020.)	Children's Product	Safety Confirmation Standards Annex 6 Toys Part 4. Toxic Chemicals		BS	N
		4. Requirements			
		4.1 Harmful elements Elution Category 1			
		- Sb	10 mg/kg or more		
		- As	0.1 mg/kg or more		
		- Ba	10 mg/kg or more		
		- Cd	0.1 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	1 mg/kg or more		
		- Hg	0.1 mg/kg or more		
		- Se	10 mg/kg or more		
		- Cu	10 mg/kg or more		
		- Ni	10 mg/kg or more		
		- Zn	10 mg/kg or more		
		- Al	10 mg/kg or more		
		- Cr^{3+}	5 mg/kg or more		
		- Cr^{6+}	0.001 mg/kg or more		
		- B	10 mg/kg or more		
		- Co	1 mg/kg or more		
		- Mn	10 mg/kg or more		
		- Sr	10 mg/kg or more		
		- Sn	10 mg/kg or more		
		- Organic tin	0.1 mg/kg or more		

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02. Chemical Test

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Category 2			
		- Sb	1 mg/kg or more		
		- As	0.1 mg/kg or more		
		- Ba	10 mg/kg or more		
		- Cd	0.1 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	1 mg/kg or more		
		- Hg	0.1 mg/kg or more		
		- Se	1 mg/kg or more		
		- Cu	10 mg/kg or more		
		- Ni	5 mg/kg or more		
		- Zn	10 mg/kg or more		
		- Al	10 mg/kg or more		
		- Cr^{3+}	5 mg/kg or more		
		- Cr^{6+}	0.001 mg/kg or more		
		- B	10 mg/kg or more		
		- Co	1 mg/kg or more		
		- Mn	10 mg/kg or more		
		- Sr	10 mg/kg or more		
		- Sn	10 mg/kg or more		
		- Organic tin	0.1 mg/kg or more		
		Category 3			
		- Sb	10 mg/kg or more		
		- As	10 mg/kg or more		
		- Ba	10 mg/kg or more		
		- Cd	5 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	10 mg/kg or more		
		- Hg	10 mg/kg or more		
		- Se	10 mg/kg or more		
		- Cu	10 mg/kg or more		
		- Ni	10 mg/kg or more		
		- Zn	10 mg/kg or more		
		- Al	10 mg/kg or more		
		- Cr^{3+}	5 mg/kg or more		
		- Cr^{6+}	0.001 mg/kg or more		
		- B	10 mg/kg or more		
		- Co	10 mg/kg or more		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		- Mn	10 mg/kg or more		
		- Sr	10 mg/kg or more		
		- Sn	10 mg/kg or more		
		- Organic tin	0.1 mg/kg or more		
		4.2 Lead	10 mg/kg or more		
		4.3 Cadmium	10 mg/kg or more		
		4.4 Nickel Elution Content	0.1 μg/cm²/week or more		
		4.5 Phthalate plasticizers	each 0.01 % or more		
MOTIE Notice No.2021-230(12.29.2021.)	Children's Product	Safety Confirmation Standards Annex 6 Toys Part 4. Toxic Chemicals		BS	N
		4. Requirements			
		4.1 Harmful elements Elution Category 1			
		- Sb	10 mg/kg or more		
		- As	0.1 mg/kg or more		
		- Ba	10 mg/kg or more		
		- Cd	0.1 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	1 mg/kg or more		
		- Hg	0.1 mg/kg or more		
		- Se	10 mg/kg or more		
		- Cu	10 mg/kg or more		
		- Ni	10 mg/kg or more		
		- Zn	10 mg/kg or more		
		- Al	10 mg/kg or more		
		- Cr^{3+}	5 mg/kg or more		
		- Cr^{6+}	0.001 mg/kg or more		
		- B	10 mg/kg or more		
		- Co	1 mg/kg or more		
		- Mn	10 mg/kg or more		
		- Sr	10 mg/kg or more		
		- Sn	10 mg/kg or more		
		- Organic tin	0.1 mg/kg or more		
		Category 2			
		- Sb	1 mg/kg or more		
		- As	0.1 mg/kg or more		
		- Ba	10 mg/kg or more		

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02. Chemical Test

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		- Cd	0.1 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	1 mg/kg or more		
		- Hg	0.1 mg/kg or more		
		- Se	1 mg/kg or more		
		- Cu	10 mg/kg or more		
		- Ni	5 mg/kg or more		
		- Zn	10 mg/kg or more		
		- Al	10 mg/kg or more		
		- Cr^{3+}	5 mg/kg or more		
		- Cr^{6+}	0.001 mg/kg or more		
		- B	10 mg/kg or more		
		- Co	1 mg/kg or more		
		- Mn	10 mg/kg or more		
		- Sr	10 mg/kg or more		
		- Sn	10 mg/kg or more		
		- Organic tin	0.1 mg/kg or more		
		Category 3			
		- Sb	10 mg/kg or more		
		- As	10 mg/kg or more		
		- Ba	10 mg/kg or more		
		- Cd	5 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	10 mg/kg or more		
		- Hg	10 mg/kg or more		
		- Se	10 mg/kg or more		
		- Cu	10 mg/kg or more		
		- Ni	10 mg/kg or more		
		- Zn	10 mg/kg or more		
		- Al	10 mg/kg or more		
		- Cr^{3+}	5 mg/kg or more		
		- Cr^{6+}	0.001 mg/kg or more		
		- B	10 mg/kg or more		
		- Co	10 mg/kg or more		
		- Mn	10 mg/kg or more		
		- Sr	10 mg/kg or more		
		- Sn	10 mg/kg or more		
		- Organic tin	0.1 mg/kg or more		

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02. Chemical Test

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		4.2 Lead	10 mg/kg or more		
		4.3 Cadmium	10 mg/kg or more		
		4.4 Nickel Elution Content	0.1 μg/cm²/week or more		
		4.5 Phthalate plasticizers	each 0.01 % or more		
MOTIE Notice No.2022-221(12.14.2022.)	Children's Product	Safety Confirmation Standards Annex 6 Toys Part 4. Toxic Chemicals		BS	N
		4. Requirements			
		4.1 Harmful elements Elution Category 1			
		- Sb	10 mg/kg or more		
		- As	0.1 mg/kg or more		
		- Ba	10 mg/kg or more		
		- Cd	0.1 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	1 mg/kg or more		
		- Hg	0.1 mg/kg or more		
		- Se	10 mg/kg or more		
		- Cu	10 mg/kg or more		
		- Ni	10 mg/kg or more		
		- Zn	10 mg/kg or more		
		- Al	10 mg/kg or more		
		- Cr^{3+}	5 mg/kg or more		
		- Cr^{6+}	0.001 mg/kg or more		
		- B	10 mg/kg or more		
		- Co	1 mg/kg or more		
		- Mn	10 mg/kg or more		
		- Sr	10 mg/kg or more		
		- Sn	10 mg/kg or more		
		- Organic tin	0.1 mg/kg or more		
		Category 2			
		- Sb	1 mg/kg or more		
		- As	0.1 mg/kg or more		
		- Ba	10 mg/kg or more		
		- Cd	0.1 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	1 mg/kg or more		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		- Hg	0.1 mg/kg or more		
		- Se	1 mg/kg or more		
		- Cu	10 mg/kg or more		
		- Ni	5 mg/kg or more		
		- Zn	10 mg/kg or more		
		- Al	10 mg/kg or more		
		- Cr^{3+}	5 mg/kg or more		
		- Cr^{6+}	0.001 mg/kg or more		
		- B	10 mg/kg or more		
		- Co	1 mg/kg or more		
		- Mn	10 mg/kg or more		
		- Sr	10 mg/kg or more		
		- Sn	10 mg/kg or more		
		- Organic tin	0.1 mg/kg or more		
		Category 3			
		- Sb	10 mg/kg or more		
		- As	10 mg/kg or more		
		- Ba	10 mg/kg or more		
		- Cd	5 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	10 mg/kg or more		
		- Hg	10 mg/kg or more		
		- Se	10 mg/kg or more		
		- Cu	10 mg/kg or more		
		- Ni	10 mg/kg or more		
		- Zn	10 mg/kg or more		
		- Al	10 mg/kg or more		
		- Cr^{3+}	5 mg/kg or more		
		- Cr^{6+}	0.001 mg/kg or more		
		- B	10 mg/kg or more		
		- Co	10 mg/kg or more		
		- Mn	10 mg/kg or more		
		- Sr	10 mg/kg or more		
		- Sn	10 mg/kg or more		
		- Organic tin	0.1 mg/kg or more		
		4.2 Lead	10 mg/kg or more		
		4.3 Cadmium	10 mg/kg or more		
		4.4 Nickel Elution Content	0.1 $\mu g/cm^2$/week or more		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		4.5 Phthalate plasticizers	each 0.01 % or more		
MOTIE Notice No.2015-108(06.04.2015.)	Children's Product	Safety Confirmation Standards Annex 7 Children's Tricycles		BS	N
		3.2.3 Harmful elements elution			
		- Sb	10 mg/kg or more		
		- As	10 mg/kg or more		
		- Ba	10 mg/kg or more		
		- Cd	10 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	10 mg/kg or more		
		- Hg	10 mg/kg or more		
		- Se	10 mg/kg or more		
		3.2.4 Hazardous elements content			
		- Total Lead content	10 mg/kg or more		
		- Total Cadmium content	10 mg/kg or more		
		3.2.5 Phthalate plasticizers	each 0.01 % or more		
MOTIE Notice No.2017-016(01.31.2017.)	Children's Product	Safety Confirmation Standards Annex 11 School things		BS	N
		5.2 Harmful elements elution			
		- Sb	10 mg/kg or more		
		- As	10 mg/kg or more		
		- Ba	10 mg/kg or more		
		- Cd	10 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	10 mg/kg or more		
		- Hg	10 mg/kg or more		
		- Se	10 mg/kg or more		
		5.3 Hazardous elements content			
		- Total Lead content	10 mg/kg or more		
		- Total Cadmium content	10 mg/kg or more		
		5.4 Phthalate plasticizers	each 0.01 % or more		
MOTIE Notice No.2020-229(12.30.2020.)	Children's Product	Safety Confirmation Standards Annex 11 School things		BS	N
		5.2 Harmful elements elution			

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		- Sb	10 mg/kg or more		
		- As	10 mg/kg or more		
		- Ba	10 mg/kg or more		
		- Cd	10 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	10 mg/kg or more		
		- Hg	10 mg/kg or more		
		- Se	10 mg/kg or more		
		5.3 Hazardous elements content			
		- Total Lead content	10 mg/kg or more		
		- Total Cadmium content	10 mg/kg or more		
		5.4 Phthalate plasticizers	each 0.01 % or more		
MOTIE Notice No.2021-230(12.29.2021.)	Children's Product	Safety Confirmation Standards Annex 11 School things		BS	N
		5.2 Harmful elements elution			
		- Sb	10 mg/kg or more		
		- As	10 mg/kg or more		
		- Ba	10 mg/kg or more		
		- Cd	10 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	10 mg/kg or more		
		- Hg	10 mg/kg or more		
		- Se	10 mg/kg or more		
		5.3 Hazardous elements content			
		- Total Lead content	10 mg/kg or more		
		- Total Cadmium content	10 mg/kg or more		
		5.4 Phthalate plasticizers	each 0.01 % or more		
MOTIE Notice No.2022-221(12.14.2022.)	Children's Product	Safety Confirmation Standards Annex 11 School things		BS	N
		5.2 Harmful elements elution			
		- Sb	10 mg/kg or more		
		- As	10 mg/kg or more		
		- Ba	10 mg/kg or more		
		- Cd	10 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	10 mg/kg or more		
		- Hg	10 mg/kg or more		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		- Se	10 mg/kg or more		
		5.3 Hazardous elements content			
		- Total Lead content	10 mg/kg or more		
		- Total Cadmium content	10 mg/kg or more		
		5.4 Phthalate plasticizers	each 0.01 % or more		
MOTIE Notice No.2015-108(06.04.2015.)	Children's Product	Safety Confirmation Standards Annex 12 Baby walking frames		BS	N
		4. Test method			
		4.2.1.2 Hazardous elements content	each 10 mg/kg or more		
		4.2.1.3 Harmful elements Elution			
		- Sb	10 mg/kg or more		
		- As	10 mg/kg or more		
		- Ba	10 mg/kg or more		
		- Cd	10 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	10 mg/kg or more		
		- Hg	10 mg/kg or more		
		- Se	10 mg/kg or more		
		4.2.1.4 The total content of Phthalate plasticizers	each 0.01 % or more		
		4.2.1.5 Formaldehyde content	16 mg/kg or more		
MOTIE Notice No.2015-108(06.04.2015.)	Children's Product	Safety Confirmation Standards Annex 16 Children's Carrier		BS	N
		Part 1 Frameless Carrier			
		6.2.1 Hazardous material test			
		6.2.1.1 Harmful elements Elution			
		- Sb	10 mg/kg or more		
		- As	10 mg/kg or more		
		- Ba	10 mg/kg or more		
		- Cd	10 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	10 mg/kg or more		
		- Hg	10 mg/kg or more		
		- Se	10 mg/kg or more		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		6.2.1.2 Hazardous elements content	each 10 mg/kg or more		
		6.2.1.3 Phthalate plasticizers	each 0.01 % or more		
		6.2.2 Formaldehyde	16 mg/kg or more		
		Part 2 Frame Carrier 6.2.1 Hazardous material test			
		6.2.1.1 Harmful elements Elution			
		- Sb	10 mg/kg or more		
		- As	10 mg/kg or more		
		- Ba	10 mg/kg or more		
		- Cd	10 mg/kg or more		
		- Cr	10 mg/kg or more		
		- Pb	10 mg/kg or more		
		- Hg	10 mg/kg or more		
		- Se	10 mg/kg or more		
		6.2.1.2 Hazardous elements content	each 10 mg/kg or more		
		6.2.1.3 Phthalate plasticizers	each 0.01 % or more		
		6.2.2 Formaldehyde	16 mg/kg or more		
BS EN 71-3:2019	Children's Product	Safety of Toys - Part3: Migration of Certain Elements		BS	N
		Category 1. - Aluminium	10 mg/kg or more		
		- Antimony	10 mg/kg or more		
		- Arsenic	0.1 mg/kg or more		
		- Barium	10 mg/kg or more		
		- Boron	10 mg/kg or more		
		- Cadmium	0.1 mg/kg or more		
		- Cobalt	1 mg/kg or more		
		- Copper	10 mg/kg or more		
		- Lead	0.5 mg/kg or more		
		- Manganese	10 mg/kg or more		
		- Mercury	0.1 mg/kg or more		
		- Nickel	10 mg/kg or more		
		- Selenium	1 mg/kg or more		
		- Strontium	10 mg/kg or more		
		- Tin	10 mg/kg or more		
		- Organic tin	0.1 mg/kg or more		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		- Zinc	10 mg/kg or more		
		Category 2.			
		- Aluminium	10 mg/kg or more		
		- Antimony	1 mg/kg or more		
		- Arsenic	0.1 mg/kg or more		
		- Barium	10 mg/kg or more		
		- Boron	10 mg/kg or more		
		- Cadmium	0.1 mg/kg or more		
		- Cobalt	1 mg/kg or more		
		- Copper	10 mg/kg or more		
		- Lead	0.1 mg/kg or more		
		- Manganese	10 mg/kg or more		
		- Mercury	0.1 mg/kg or more		
		- Nickel	5 mg/kg or more		
		- Selenium	1 mg/kg or more		
		- Strontium	10 mg/kg or more		
		- Tin	10 mg/kg or more		
		- Organic tin	0.1 mg/kg or more		
		- Zinc	10 mg/kg or more		
		Category 3.			
		- Aluminium	10 mg/kg or more		
		- Antimony	10 mg/kg or more		
		- Arsenic	10 mg/kg or more		
		- Barium	10 mg/kg or more		
		- Boron	10 mg/kg or more		
		- Cadmium	5 mg/kg or more		
		- Cobalt	10 mg/kg or more		
		- Copper	10 mg/kg or more		
		- Lead	10 mg/kg or more		
		- Manganese	10 mg/kg or more		
		- Mercury	10 mg/kg or more		
		- Nickel	10 mg/kg or more		
		- Selenium	10 mg/kg or more		
		- Strontium	10 mg/kg or more		
		- Tin	10 mg/kg or more		
		- Organic tin	0.1 mg/kg or more		
		- Zinc	10 mg/kg or more		
BS EN 71-3:2019	Children's	Safety of Toys - Part3:		BS	N

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
+A1:2021	Product	Migration of Certain Elements			
		Category 1.			
		- Aluminium	10 mg/kg or more		
		- Antimony	10 mg/kg or more		
		- Arsenic	0.1 mg/kg or more		
		- Barium	10 mg/kg or more		
		- Boron	10 mg/kg or more		
		- Cadmium	0.1 mg/kg or more		
		- Chromium(Ⅲ)	5 mg/kg or more		
		- Chromium(Ⅵ)	0.001 mg/kg or more		
		- Cobalt			
		- Copper	10 mg/kg or more		
		- Lead	0.5 mg/kg or more		
		- Manganese	10 mg/kg or more		
		- Mercury	0.1 mg/kg or more		
		- Nickel	10 mg/kg or more		
		- Selenium	1 mg/kg or more		
		- Strontium	10 mg/kg or more		
		- Tin	10 mg/kg or more		
		- Organic tin	0.1 mg/kg or more		
		- Zinc	10 mg/kg or more		
		Category 2.			
		- Aluminium	10 mg/kg or more		
		- Antimony	1 mg/kg or more		
		- Arsenic	0.1 mg/kg or more		
		- Barium	10 mg/kg or more		
		- Boron	10 mg/kg or more		
		- Cadmium	0.1 mg/kg or more		
		- Chromium(Ⅲ)	5 mg/kg or more		
		- Chromium(Ⅵ)	0.001 mg/kg or more		
		- Cobalt	1 mg/kg or more		
		- Copper	10 mg/kg or more		
		- Lead	0.1 mg/kg or more		
		- Manganese	10 mg/kg or more		
		- Mercury	0.1 mg/kg or more		
		- Nickel	5 mg/kg or more		
		- Selenium	1 mg/kg or more		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		- Strontium	10 mg/kg or more		
		- Tin	10 mg/kg or more		
		- Organic tin	0.1 mg/kg or more		
		- Zinc	10 mg/kg or more		
		Category 3. - Aluminium	10 mg/kg or more		
		- Antimony	10 mg/kg or more		
		- Arsenic	10 mg/kg or more		
		- Barium	10 mg/kg or more		
		- Boron	10 mg/kg or more		
		- Cadmium	5 mg/kg or more		
		- Chromium(Ⅲ)	5 mg/kg or more		
		- Chromium(Ⅵ)	0.001 mg/kg or more		
		- Cobalt	10 mg/kg or more		
		- Copper	10 mg/kg or more		
		- Lead	10 mg/kg or more		
		- Manganese	10 mg/kg or more		
		- Mercury	10 mg/kg or more		
		- Nickel	10 mg/kg or more		
		- Selenium	10 mg/kg or more		
		- Strontium	10 mg/kg or more		
		- Tin	10 mg/kg or more		
		- Organic tin	0.1 mg/kg or more		
		- Zinc	10 mg/kg or more		
BS EN 71-11:2005	Children's Product	Safety of toys - Part 11: Organic chemical compounds - Methods of analysis 5.2 Flame retardants	each 5 mg/kg or more	BS	N
NIER Notice No.2022-6(02.07.2022.)	Children's Product	Environmental harmful factorprocess test standard ES 12702.1 Lead and cadmium in paints and varnishes - Inductively coupled plasma atomic emission spectroscopy ES 12705.1 Mercury in paints and finishes - Atomic absorption spectroscopy ES 12706.1 Hexavalent	Pb: 10 mg/kg or more Cd: 10 mg/kg or more Hg: 10 mg/kg or more Cr^{6+}: 2 mg/kg or	BS	N

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		chromium in paints and finishes - ultraviolet/visible spectroscopy (UV/Vis-spectrometer)	more		
KATS Notice No.2020-267(10.08.2020.)	Children's Product	Safety Confirmation Standards Annex 73 Outdoor Exercise Equipment 4.1.3 Metals Harmful element -Pb -Cd -Hg -Cr^{6+}	10 mg/kg or more (0.001 % or more) 10 mg/kg or more (0.001 % or more) 10 mg/kg or more (0.001 % or more) 2 mg/kg or more (0.000 2 % or more)	BS	N
GB/T 36922-2018	Children's Product	Determination of organophosphorous flame retardants in toys—Gas chromatometry-mass spectrometry method	TCEP: 10 mg/kg or more TDCP: 10 mg/kg or more TCPP: 10 mg/kg or more	BS	N
ISO 8124-3:2020	Children's Product	Safety of toys — Part 3: Migration of certain elements Any toy material except finger paint - Antimony - Arsenic - Barium - Cadmium - Chromium - Lead - Mercury - Selenium Finger paint - Antimony	10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 5 mg/kg or more	BS	N

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		- Arsenic - Barium - Cadmium - Chromium - Lead - Mercury - Selenium	5 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 5 mg/kg or more 10 mg/kg or more		
KS F 2155:2018	Children's Product	Method of determining penetration and retention of preservatives in treated wood 5.4.3 Copper · Alkyl Ammonium compound-based Wood Preservatives (ACQ) Treated Wood 4 Percent penetration 4.1 Test specimen 4.1.1 Method by cutting 4.2 Test Methods 4.2.3 Copper/alkylammonium compound-based wood preservative (ACQ) treatment material	0.01 kg/㎥ or more (0.1 ~ 100) %	BS	N
KS F 3028:2021	Children's Product	Wood for outdoor facilities treated with preservatives by pressure processes 5.3 Preservatives content - Copper · Alkyl Ammonium Compounds 8.2 Degree of infiltration	0.01 kg/㎥ or more (0.1 ~ 100) %	BS	N
KATS Notice No.2020-267(10.08.2020.)	Children's Product	Safety Confirmation Standards Annex 73 Outdoor Exercise Equipment 4.1.2 Woods and Woodwork b) KS F 3028 -Preservatives content (Copper·Alkyl Ammonium Compounds) -Degree of infiltration	0.1 kg/㎥ or more (0.1 ~ 100) %	BS	N
KS G ISO 8124-3:2010	Children's Product	Safety of toys — Part 3: Migration of certain elements - Antimony - Arsenic	10 mg/kg or more 10 mg/kg or more	BS	N

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		- Barium - Cadmium - Chromium - Lead - Mercury - Selenium	10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more		
KS F 3025:2021	Children's Product	Foundation wood sill treated with preservatives by pressure processes 8.2 Percent penetration (KS F 2155:2018, 4 Percent penetration 4.1 Test specimen 4.1.1 Method by cutting 4.2 Test Methods 4.2.3 Copper/alkylammonium compound-based wood preservative (ACQ) treatment material)	(0.1 ~ 100) %	BS	N

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01. Mechanical Test

01.001 Metals and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
KS D ISO 9220:1988	Metals and Related Products	Metallic coating－Measurement of coating thickness－Scanning electron microscope method	(0.3 ~ 1 000) μm	SF-1	N

01. Mechanical Test

01.002 Textiles and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
NFA Notice No.2023-009(03.09.2023.)	Textiles and Related Products	Standard of flame resistance material's performance test		BS-1	N
		Article 5. Test methods for flame resistance performance of bedding material, clothing and fabric for clothing	(0 ~ 30) cm		
		Article 6. Test methods for flame resistance performance of thin and thick fabric	0.1 s or more, (0 ~ 30) cm, (0 ~ 375) cm^2		
		Article 7. Test methods for flame resistance performance of artificial turf and floor mat	0.1 s or more, (0 ~ 50) cm		
		Article 8. Test methods for flame resistance performance of car interior material	1 mm/min or more		
		Article 9. Test methods for smoke density of flame resistance material	Ds 0.1 or more		
		Article 10. Test methods for	0.1 s or more,		

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01. Mechanical Test

01.002 Textiles and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		washing resistance of flame resistance material	(0 ~ 30) cm, (0 ~ 375) cm^2		
NFA Notice No.2022-29(12.01.2022.)	Textiles and Related Products	Standard of flame resistance performance		BS-1	N
		Article 5. Test methods for flame resistance performance of carpet	0.1 s or more, (0 ~ 50) cm		
		Article 6. Test methods for flame resistance performance of thin and thick fabric	0.1 s or more, (0 ~ 30) cm, (0 ~ 375) cm^2		
		Article 7. Test methods for flame resistance performance of synthetic resin plate and plywood	0.1 s or more, (0 ~ 30) cm, (0 ~ 375) cm^2		
		Article 7-2. Test methods for flame resistance performance of on-site flameproof processing goods	0.1 s or more, (0 ~ 30) cm, (0 ~ 375) cm^2		
		Article 7-3. Test methods for flame resistance performance of sofa·chair	0.1 s or more, (0 ~ 50) cm,		
		Article 8. Test methods for smoke density of flame resistance material	Ds 0.1 or more		
		Article 9. Test methods for washing resistance of flame resistance material	0.1 s or more, (0 ~ 30) cm, (0 ~ 375) cm^2		
KATS Notice No.2018-195(06.29.2018.)	Textiles and Related Products	Safety Confirmation Standards Annex 2 Carpet		BS-1	N
		5.1 Appearance	Visual		
		5.2 Pull Strength of File	(0 ~ 10) kN		
		5.3 Flammability	1 cm or more, 0.1 s or more		
		5.4 Electrostatic Propensity	(0 ~ 10 000) V		
KATS Notice No.2018-195(06.29.2018.)	Textiles and Related Products	Safety Confirmation Standards Annex 9 Tent		BS-1	N
		6. Dimension	1 mm or more		
		7. Flammability	0.1 s or more, (0 ~ 30) cm,		

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01. Mechanical Test

01.002 Textiles and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
			(0 ~ 375) cm^2		
KATS Notice No.2018-195(06.29.2018.)	Textiles and Related Products	Safety Confirmation Standards Annex 16 High-visibility warming jackets		BS-1	N
		5.1 Structure	육안, 1 mm or more		
		5.6 Performance of base material - Tensile Strength - Bursting strength - Tear Strength	(0 ~ 10) kN (690 ~ 9 650) kPa (0 ~ 10) kN		
		5.7 Retro Reflectance	0.01 cd/lx·m^2 or more		
		5.2 Colour	0.000 1 or more, 0.01 βmin or more	SF-1	N
KATS Notice No.2017-032(02.08.2017.)	Textiles and Related Products	Safety Confirmation Annex 2 Life-jackets for Sports & Leisure Part 1. Life-jackets for Sports & Leisure		BS-1	N
		6.1 Temperature cycling	Visual		
		6.2 Oil and water resistance	Visual		
		6.3 Tensile strenth for fabrics and stiching parts, adhesive parts	(0 ~10) kN		
		6.4 Physical properties for coated fabrics and components used in the construction of inflatable buoyancy chambers.	(0 ~ 10) kN, visual, 0.1 % or more		
		6.5 Oral inflation tube flow	(0 ~ 100) kPa		
		6.6 Security of protruding oral inflation valve	Visual		
		6.7 Security of operating head	Visual		
		6.8 Thermal stability of buoyancy material	(0 ~ 100) %		
		6.9 Underwater performance tests	Visual, 0.1 s or more		

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01. Mechanical Test

01.002 Textiles and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		6.10 Inflation tests	Visual, 0.1 s or more		
		6.11 Crushing and compression tests	Visual		
		Annex A Vertical and horizontal load tests	Visual, (0 ~ 1 000) mm		
		Annex B Measurement of buoyancy - whole device	Visual, (0 ~ 1 000) N		
		Annex C Measurement of buoyancy - material samples	(0 ~ 100) %		
		Annex D Specification of retro-reflective materials	0.01 cd/lx·m^2 or more, visual, (0 ~ 10) kN		
		Annex F Test method for the measurement of freeboard	(0 ~ 600) mm		
		Annex G Test method for resistance to inadvertent inflation	Visual		
ASTM D4060-19	Textiles and Related Products	Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser	0.1 mg or more, (0 ~ 50) mm	BS-1	N
ASTM D4060-19	Textiles and Related Products	Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser	0.1 mg or more, (0 ~ 50) mm	SF-1	N
ASTM D4355/D4355M-21	Textiles and Related Products	Standard Test Method for Deterioration of Geotextiles by Exposure to Light, Moisture and Heat in a Xenon Arc Type Apparatus	(0 ~ 100) %	BS-1	N
ASTM D4491/D4491M-22	Textiles and Related Products	Standard Test Methods for Water Permeability of Geotextiles by Permittivity	0.1 s^{-1} or more, 0.001 mm/s or more	BS-1	N
ASTM D4533/D4533M-15(2023)	Textiles and Related Products	Standard Test Method for Trapezoid Tearing Strength of Geotextiles	(0 ~ 10) kN	BS-1	N
ASTM D4594/D4594M-96(2020)	Textiles and Related Products	Standard Test Method for Effects of Temperature on Stability of Geotextiles	(0 ~ 100) %	BS-1	N
ASTM	Textiles and	Standard Test Method for	(0 ~ 300) kN	BS-1	N

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01. Mechanical Test

01.002 Textiles and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
D4595/D4595M-23	Related Products	Tensile Properties of Geotextiles by the Wide-Width Strip Method	0.01 % or more		
ASTM D4632/D4632M-15a(2023)	Textiles and Related Products	Standard Test Method for Grab Breaking Load and Elongation of Geotextiles	(0 ~ 10) kN, 0.1 % or more	BS-1	N
ASTM D4716/D4716M-22	Textiles and Related Products	Standard Test Method for Determining the (In-plane) Flow Rate per Unit Width and Hydraulic Transmissivity of a Geosynthetic Using a Constant Head	1.0 m^2/s or less	BS-1	N
ASTM D4751-21a	Textiles and Related Products	Standard Test Methods for Determining Apparent Opening Size of a Geotextile	(38 ~ 2 000) μm	BS-1	N
ASTM D4833/D4833M-07(2020)	Textiles and Related Products	Standard Test Method for Index Puncture Resistance of Geomembranes and Related Products	(0 ~ 10) kN	BS-1	N
ASTM D4884/D4884M-22	Textiles and Related Products	Standard Test Method for Strength of Sewn or Thermally Bonded Seams of Geotextiles	(0 ~ 300) kN	BS-1	N
ASTM D5199-12(2019)	Textiles and Related Products	Standard Test Method for Measuring the Nominal Thickness of Geosynthetics	(0 ~ 50) mm	BS-1	N
ASTM D5261-10(2018)	Textiles and Related Products	Standard Test Method for Measuring Mass per Unit Area of Geotextiles	0.01 g or more	BS-1	N
ASTM D5321/D5321M-21	Textiles and Related Products	Standard Test Method for Determining the Shear Strength of Soil-Geosynthetic and Geosynthetic-Geosynthetic interfaces by Direct Shear	(0 ~ 5) kN	BS-1	N
ASTM D5322-17	Textiles and Related Products	Standard Practice for Laboratory Immersion Procedures for Evaluating the Chemical Resistance of Geosynthetics to Liquids	(0 ~ 100) %	BS-1	N
ASTM D5994/D5994M-10(20	Textiles and Related Products	Standard Test Method for Measuring Core Thickness of Textured Geomembrane	(0 ~ 50) mm	BS-1	N

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01. Mechanical Test

01.002 Textiles and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
21)					
ASTM D6637/D6637M-15	Textiles and Related Products	Standard Test Method for Determining Tensile Properties of Geogrids by the Single or Multi-Rib Tensile Method	(0 ~ 300) kN, 0.1 % or more	BS-1	N
BS 5722:1984	Textiles and Related Products	Specification for Flammability Performance of Fabrics and Fabric Assemblies Used in Sleepwear and Dressing Gowns	0.1 s or more	BS-1	N
BS 5867-2:2008	Textiles and Related Products	Fabrics for Curtains, Drapes and Window Blinds. Flammabililty Requirements. Specification	0.1 s or more, (0 ~ 1 000) mm	BS-1	N
BS 7837:1996	Textiles and Related Products	Specification for Flammability Performance for Textiles Used in the Construction of Marquees and Similar Textile Structures	0.1 s or more	BS-1	N
BS EN 1021-2:2014	Textiles and Related Products	Furniture. Assessment of the Ignitability of Upholstered Furniture. Ignition Source Match Flame Equivalent	0.1 s or more, (0 ~ 1 000) mm	BS-1	N
BS EN 12225:2020	Textiles and Related Products	Geosynthetics. Method for determining the microbiological resistance by a soil burial test.	(0 ~ 100) %	BS-1	N
BS EN 12226:2012	Textiles and Related Products	Geosynthetics. General tests for evaluation following durability testing	(0 ~ 100) %	BS-1	N
BS EN 12447:2021	Textiles and Related Products	Geotextiles and geotextile-related products. Screening test method for determining the resistance to hydrolysis in water	(94 ~ 96) ℃	BS-1	N
BS EN 14030:2001	Textiles and Related Products	Geotextiles and geotextile-related products. Screening test method for determining the resistance to acid and alkaline liquids	(59 ~ 61) ℃	BS-1	N
CPAI 84:2021	Textiles and Related Products	A Specification for Flame-Resistance Materials Used in Camping Tentage	0.1 s or more, (0 ~ 300) mm	BS-1	N
International Code for Application of Fire	Textiles and Related Products	Test for surface flammability (Test for surface materials and	0.1 kW/m^2 or more,	BS-1	N

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01. Mechanical Test

01.002 Textiles and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
Test Procedures-05:2010		primary deck coverings)	0.1 MJ/m^2 or more, 0.1 kW or more, 0.1 MJ or more		
International Code for Application of Fire Test Procedures-07:2010	Textiles and Related Products	Test for vertically supported textiles and films	0.1 s or more, (0 ~ 300) mm	BS-1	N
International Code for Application of Fire Test Procedures-08:2010	Textiles and Related Products	Test for upholstered furniture	visual, 0.1 s or more	BS-1	N
International Code for Application of Fire Test Procedures-09:2010	Textiles and Related Products	Test for bedding components	visual, 0.1 s or more (0 ~ 600) mm	BS-1	N
ISO 10319:2015	Textiles and Related Products	Geotextiles-Wide-Width Tensile Test	(0 ~ 130) kN, 0.01 % or more	BS-1	N
ISO 10321:2008	Textiles and Related Products	Geotextiles-Tensile Test for Joints/ Seams by Wide-Width Strip Method	(0 ~ 300) kN	BS-1	N
ISO 11058:2019	Textiles and Related Products	Geotextiles and Geotextile-Related Products-Determination of Water Permeability Characteristics Normal to the Plane, Without Load	1.0 m/s or less	BS-1	N
ISO 12236:2006	Textiles and Related Products	Geosynthetics-Static Puncture Test (CBR Test)	(0 ~ 50) kN	BS-1	N
ISO 12952-1:2010	Textiles and Related Products	Textiles - Assessment of the ignitability of bedding items - Part 1: Ignition source: smouldering cigarette	1 s or more	BS-1	N
ISO 12952-2:2010	Textiles and Related Products	Textiles - Assessment of the ignitability of bedding items - Part 2: Ignition source: match-flame equivalent	1 s or more	BS-1	N
ISO 12956:2019	Textiles and Related Products	Geotextiles and Geotextile-Related Products-Determination of the	(38 ~ 2 000) μm	BS-1	N

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01. Mechanical Test

01.002 Textiles and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Characteristic Opening Size			
ISO 12958-1:2020	Textiles and Related Products	Geotextiles and geotextile-related products - Determination of water flow capacity in their plane — Part 1 : Index test	1.0 L/m·s or less	BS-1	N
ISO 3795:1989	Textiles and Related Products	Road Vehicles, and Tractors and Machinery for Agriculture and Forestry-Determination of Burning Behavior of Interior Materials	1 mm/min or more	BS-1	N
ISO 5658-2:2006	Textiles and Related Products	Reaction to fire tests - Spread of flame - Part 2: Lateral spread on building and transport products in vertical configuration	0.1 kW/m^2 or more, 0.1 MJ/m^2 or more, 0.1 kW or more, 0.1 MJ or more	BS-1	N
ISO 6940:2004	Textiles and Related Products	Textile Fabrics-Burning Behavior-Determination of Ease of Ignition of Vertically Oriented Specimens	0.1 s or more	BS-1	N
ISO 6941:2003	Textiles and Related Products	Textile Fabrics-Burning Behaviors-Measurement of Flame Spread Properties of Vertically Oriented Specimens	0.1 s or more	BS-1	N
ISO 9863-1:2016 /Amd 1:2019	Textiles and Related Products	Geosynthetics - Determination of thickness at specified pressures - Part 1: Single layers - Amendment 1	(0 ~ 50) mm	BS-1	N
ISO 9864:2005	Textiles and Related Products	Geosythetics-Test Method for the Determination of Mass per Unit Area of Geotextiles and Geotextile-Related Products	0.01 g or more	BS-1	N
KS D 9502:2020	Textiles and Related Products	Methods of neutral salt spray testing (neutral salt, acetic acid and cass test)	visual, 0.1 s or more, 0.001 g or more	BS-1	N
KS F 2819:2016	Textiles and Related Products	Testing method for incombustibility of thin materials for buildings	0.1 s or more, (0 ~ 300) mm	BS-1	N
KS F 8081:2018	Textiles and	Vertical protective net		BS-1	N

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01. Mechanical Test

01.002 Textiles and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
	Related Products	6.3 Tensile test of Safety net	(0 ~ 10 000) N		
		6.4 Tensile load test of eyelet	(0 ~ 10 000) N		
		6.6 Flammability Test	0.1 s or more, (0 ~ 300) mm		
KS F 8082:2018	Textiles and Related Products	Horizontal safety net 7.3 Tensile load test of mesh	(0 ~ 10 000) N	BS-1	N
		7.6 Flammability test	0.1 s or more, (0 ~ 300) mm		
KS F 8083:2018	Textiles and Related Products	Debris net 6.2 Tensile load test	(0 ~ 10 000) N	BS-1	N
		6.5 Flammability test	0.1 s or more, (0 ~ 300) mm		
KS K 0350:2022	Textiles and Related Products	Test method for bursting strength of cloth : Ball bursting method	(0 ~ 10) kN	BS-1	N
KS K 0350:2022	Textiles and Related Products	Test method for bursting strength of cloth : Ball bursting method	(0 ~ 10) kN	SF-1	N
KS K 0514:2022	Textiles and Related Products	Measuring method for weight of cloth: small specimen method	0.01 g or more	BS-1	N
KS K 0514:2022	Textiles and Related Products	Measuring method for weight of cloth: small specimen method	0.01 g or more	SF-1	N
KS K 0520:2021	Textiles and Related Products	Textiles - Tensile properties of fabrics - Determination of maximum force and elongation at maximum force using the grab method	(0 ~ 10) kN, 0.1 % or more	BS-1	N
KS K 0520:2021	Textiles and Related Products	Textiles - Tensile properties of fabrics - Determination of maximum force and elongation at maximum force using the grab method	(0 ~ 10) kN, 0.1 % or more	SF-1	N
KS K 0521:2023	Textiles and Related Products	Textiles – Tensile properties of fabrics – Determination of maximum force and elongation at maximum force using the strip method	(0 ~ 10) kN, 0.1 % or more	BS-1	N
KS K 0521:2023	Textiles and Related Products	Textiles – Tensile properties of fabrics – Determination of maximum force and elongation	(0 ~ 10) kN, 0.1 % or more	SF-1	N

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01. Mechanical Test

01.002 Textiles and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		at maximum force using the strip method			
KS K 0536:2019	Textiles and Related Products	Test method for tearing strength of cloth: Tongue method	(0 ~ 10) kN	BS-1	N
KS K 0536:2019	Textiles and Related Products	Test method for tearing strength of cloth: Tongue method	(0 ~ 10) kN	SF-1	N
KS K 0582:2021	Textiles and Related Products	Test method for burning rate of cloth: Horizontal method	0.1 s or more, (0 ~ 300) mm	BS-1	N
KS K 0585:2019	Textiles and Related Products	Test method for flammability of textiles (vertical method)	0.1 s or more, (0 ~ 300) mm	BS-1	N
KS K 0743:2016	Textiles and Related Products	Test method for breaking strength and elongation of geotextiles: Grab method	(0 ~ 10) kN, 0.1 % or more	BS-1	N
KS K 0744:2016	Textiles and Related Products	Test method for puncture resistance of geomembranes and related products	(0 ~ 10) kN	BS-1	N
KS K 0746:2021	Textiles and Related Products	Test method of weatherability of geotextiles : Xenon-arc method	(0 ~ 100) %	BS-1	N
KS K 0754:2022	Textiles and Related Products	Standard test method for determining apparent opening size of a geotextile	(38 ~ 2 000) μm	BS-1	N
KS K 0770:2017	Textiles and Related Products	Test method for flammability of camping tentage	0.1 s or more, (0 ~ 300) mm	BS-1	N
KS K 0796:2015	Textiles and Related Products	Test method for tearing strength of geotextiles: Trapezoid method	(0 ~ 10) kN	BS-1	N
KS K 0818:2022	Textiles and Related Products	Test method for carpet		BS-1	N
		7.3 Mass per Unit Area	0.1 g/m^2 or more		
		7.4 Thickness	(0 ~ 50) mm		
		7.9 Tensile strength and Elongation	(0 ~ 10) kN, 0.1 % or more		
		7.11 Thickness Loss by Dynamic Loading	(0 ~ 100) %		
		7.13 Pull Strength of Pile	(0 ~ 1) kN		
		7.14 Peel strength of adhesive fabric	(0 ~ 10 000) N		
		7.16 Flammability	0.1 s or more, 1 mm or more		

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01. Mechanical Test

01.002 Textiles and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
KS K 0936:2022	Textiles and Related Products	Geotextiles and geotextile-related products- Screening test method for determining the resistance to hydrolysis in water	(0 ~ 100) %	BS-1	N
KS K 2618:2022	Textiles and Related Products	Woven carpets, tuft carpet and tile carpet		BS-1	N
		6.1 Width and Length	(0 ~ 1 000) mm		
		6.2 Mass per Unit Area	0.1 g/m^2 or more		
		6.3 Pile Pull Off Strength	(0 ~ 1) kN		
		6.4 Thickness Loss under Dynamic Loading	(0 ~ 100) %		
		6.6 Solvent Extract	(0 ~ 100) %		
		6.7 Flame Retardant	0.1 s or more, 1 mm or more		
		6.8 Materials	(0 ~ 300) mg/kg		
		6.9 Peel strength of reinforced material	(0 ~ 10 000) N		
		6.10 Degree of Right Angle	(0 ~ 25) mm		
		6.11 Width and Length Change rate by castor chair	(0.1 ~ 100) %		
		6.12 Length Change by Heat and Water	(-100.0 ~ 100.0) %		
		6.13 Curling	0.01 mm or more		
		6.14 Electrostatic Resistance	(0 ~ 10 000) V		
		6.15 Appearance	visual		
KS M ISO 1421:2016	Textiles and Related Products	Rubber − or plastics − coated fabrics − Determination of tensile strength and elongation at break	(0 ~ 10) kN, 0.1 % or more	BS-1	N
KS M ISO 1421:2016	Textiles and Related Products	Rubber − or plastics − coated fabrics − Determination of tensile strength and elongation at break	(0 ~ 10) kN, 0.1 % or more	SF-1	N
KS K ISO 5084:1996	Textiles and Related Products	Textiles − Determination of thickness of textiles and textile products	(0 ~ 50) mm	BS-1	N
KS K ISO 5084:1996	Textiles and Related Products	Textiles − Determination of thickness of textiles and textile products	(0 ~ 50) mm	SF-1	N

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01. Mechanical Test

01.002 Textiles and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
KS K ISO 10319:2015	Textiles and Related Products	Geosynthetics-Wide-width tensile test	(0 ~ 130) kN, 0.01 % or more	BS-1	N
KS K ISO 10321:2008	Textiles and Related Products	Geosynthetics-Tensile test for joints/seams by wide-width strip method	(0 ~ 130) kN	BS-1	N
KS K ISO 10722:2019	Textiles and Related Products	Geosynthetics-Index test procedure for the evaluation of mechanical damage under repeated loading-Damage caused by granular material (laboratory test method)	(0 ~ 100) %	BS-1	N
KS K ISO 11058:2019	Textiles and Related Products	Geotextiles and geotextile-related products-Determination of water permeability characteristics normal to the plane, without load	1.0 m/s or less	BS-1	N
KS K ISO 12956:2019	Textiles and Related Products	Geotextiles and geotextile-related products-Determination of the characteristic opening size	(38 ~ 2 000) μm	BS-1	N
KS K ISO 12957-1:2018	Textiles and Related Products	Geosynthetics-Determination of friction characteristics-Part 1: Direct shear test	(0 ~ 50) kN	BS-1	N
KS K ISO 12958:2011	Textiles and Related Products	Geotextiles and geotextile-related products-Determination of water flow capacity in their plane	1.0 L/(m·s) or less	BS-1	N
KS K ISO 13438:2018	Textiles and Related Products	Geosynthetics-Screening test method for determining the resistance of geotextiles and geotextile-related products to oxidation	(0 ~ 100) %	BS-1	N
KS K ISO 9864:2005	Textiles and Related Products	Geosynthetics-Test method for the determination of mass per unit area of geotextiles and geotextile-related products	0.01 g or more	BS-1	N
KS K ISO 12960:2020	Textiles and Related Products	Geotextiles and geotextile - related products - Screening test methods for determining the resistance to acid and alkaline liquids	(0 ~ 100) %	BS-1	N
KS L 2513:2015	Textiles and	Testing methods for textile glass		BS-1	N

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01. Mechanical Test

01.002 Textiles and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
	Related Products	products 6.20 Flammability of Textile	0.1 s or more, (0 ~ 30) cm, (0 ~ 275) cm^2		
NFPA 701:2023	Textiles and Related Products	Standard Method of Fire Tests for Flame Resistance Textile and Films	0.1 s or more, (0 ~ 1 200) mm, 0.1 g or more	BS-1	N
ASTM D5262-21	Textiles and Related Products	Standard Test Method for Determining the Unconfined Tension Creep and Creep Rupture Behavior of Planar Geosynthetics used for Reinforcement Purposes	(20 ~ 110) ℃, (0.1 ~ 100 000) N, (0.1 ~ 20) %	BS-1	N
ASTM D6992-16(2023)	Textiles and Related Products	Standard Test Method for Accelerated Tensile Creep and Creep-Rupture of Geosynthetic Materials Based on Time-Temperature Superposition Using the Stepped Isothermal Method	(20 ~ 110) ℃, (0.1 ~ 100 000) N, (0.1 ~ 20) %	BS-1	N
ASTM D7361-07(2018)	Textiles and Related Products	Standard Test Method for Accelerated Compressive Creep of Geosynthetic Materials Based on Time-Temperature Superposition Using the Stepped Isothermal Method	(20 ~ 110) ℃, (0.1 ~ 100 000) N, (0.1 ~ 20) %	BS-1	N
BS EN 12224:2000	Textiles and Related Products	Geotextiles and geotextile-related products. Determination of the resistance to weathering	(2.97 ~ 3.63) W/m^2 @ (290 ~ 320)nm (19.8 ~ 24.2) W/m^2 @ (320 ~ 360)nm (16.6 ~ 19.8) W/m^2 @ (360 ~ 400)nm	BS-1	N
KS K ISO 13431:1999	Textiles and Related Products	Geotextiles and geotextile-related products-Determination of tensile creep and creep rupture behaviour	(0.1 ~ 100 000) N, (0.1 ~ 20) %	BS-1	N
RS-KORAS-FITI-022(2017)	Textiles and Related Products	Lifetime prediction test method for accelerated tensile creep of	(20 ~ 110) ℃, (0.1 ~ 100 000) N,	BS-1	N

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01. Mechanical Test

01.002 Textiles and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		geosynthetics(A): time-temperature superposition principle	(0.1 ~ 20) %		
RS-KORAS-FITI-023(2017)	Textiles and Related Products	Test method for accelerated tensile creep of geosynthetics(B): stepped isothermal method	(20 ~ 110) ℃, (0.1 ~ 100 000) N, (0.1 ~ 20) %	BS-1	N
RS-KORAS-FITI-029(2017)	Textiles and Related Products	Accelerated Compressive Creep Test Method for Drainage Geosynthetics Based on Time-Temperature Superposition Using the Stepped Isothermal Method	(20 ~ 110) ℃, (0.1 ~ 100 000) N, (0.1 ~ 20) %	BS-1	N
KS F 8084:2018	Textiles and Related Products	Vertical safety net 6.2 Tensile load test of mesh 6.3 Tensile load test of connect part 6.6 Flammability Test	 (0 ~ 10 000) N (0 ~ 10 000) N 0.1 s or more, (0 ~ 300) mm	BS-1	N
KS K 2630:2018	Textiles and Related Products	Nonwoven geotextiles 5.1 Appearance 8.1 Mass 8.2 Tensile strength and elongation 8.3 Seam strength 8.4 Permeability	 Visual (0 ~ 200) g (0 ~ 50 000) N, (1 ~ 1 000) % (0 ~ 10 000) N 1.0 m/s less than	BS-1	N
KS K ISO 13935-2:2014	Textiles and Related Products	Textiles — Seam tensile properties offabrics and made-up textile articles — Part 2: Determination of maximum force to seam rupture using the grab method	(0 ~ 10 000) N	BS-1	N

01. Mechanical Test

01.008 Papers and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
KS F 2199:2022	Papers and	Determination of moisture	(0 ~ 100) %	BS-1	N

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01. Mechanical Test

01.008 Papers and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
	Related Products	content of wood			
KS M 7305:2022	Papers and Related Products	Wall paper and wall coverings for decorative finish		BS-1	N
		5.3.5 Wet strength	(0.01 ~ 95) N/15 mm		
		5.3.8 Flammability	0.1 s or more, (0 ~ 30) cm (0 ~ 375) cm^2		
KS M ISO 536:2012	Papers and Related Products	Paper and board-Determination of grammage	0.1 g/m^2 or more	BS-1	N

01. Mechanical Test

01.010 Plastics and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
KATS Notice No.2023-330 (09.01.2023.)	Plastics and Related Products	Safety confirmation Annex 67 Indoor floorcoverings		BS-1	N
		Floorcoverings (PVC)			
		4. Common factors	-		
		4.1 Appearance	Visual		
		4.3 Determination of coating thickness	(1 ~ 150) μm		
		5. Mechanical and physical properties			
		5.1 PVC floorcoverings for Mechanical and physical properties			
		- Tensile Strength	(0 ~ 1 000) N/cm^2		
		- Tearing strength	(0 ~ 500) N/cm		
		5.2 PVC floorcover sheets for Mechanical and physical properties			
		- Determination of residual indentation after static loading	(0 ~ 100) %		

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01. Mechanical Test

01.010 Plastics and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		- Length change ratio by heating	(0 ~ 100) %		
		- Weight loss ratio by heating	(0 ~ 100) %		
		- Testing methods for staining	Visual		
		5.3 PVC floorcover tiles for Mechanical and physical properties			
		- Determination of residual indentation after static loading	(0 ~ 100) %		
		- Length change ratio by heating	(0 ~ 100) %		
		- Length change ratio by absorption	(0 ~ 100) %		
		- Weight loss ratio by heating	(0 ~ 100) %		
		- Determination of scratch testing	(0 ~ 300) mm		
		- Testing methods for staining	Visual		
ASTM D1004-21	Plastics and Related Products	Standard Test Method for Tear Resistance (Graves Tear) of Plastic Film and Sheeting	(0 ~ 1) kN, (0 ~ 500) mm	BS-1	N
ASTM D2863-23	Plastics and Related Products	Standard Test Method for Measuring the Minimum Oxygen Concentration to Support Candle-Like Combustion of Plastics (Oxygen Index)	(0.1 ~ 99.0) %	BS-1	N
ASTM D3801-20a	Plastics and Related Products	Standard Test Method for Measuring the Comparative Burning Characteristics of Solid Plastics in a Vertical Position	(0 ~ 3 600) s	BS-1	N
ASTM D638-22	Plastics and Related Products	Standard Test Method for Tensile Properties of Plastics	(0 ~ 1 000) MPa (0 ~ 1 000) %	BS-1	N
ASTM D792-20	Plastics and Related Products	Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement	(0 ~ 2.000) g/cm^3 (0 ~ 2.000)	BS-1	N
ASTM D882-18	Plastics and Related Products	Standard Test Method for Tensile Properties of Thin Plastic Sheeting	(0 ~ 1 000) MPa (0 ~ 1 000) %	BS-1	N

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01. Mechanical Test

01.010 Plastics and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
ASTM E662-21ae1	Plastics and Related Products	Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials	Ds (0.1 ~ 1 000)	BS-1	N
ISO 1183-1:2019	Plastics and Related Products	Plastics-Methods for determining the density of non-cellular plastics- Part 1: Immersion method, liquid pycnometer method and titration method	(0 ~ 2.000) g/cm^3	BS-1	N
ISO 178:2019	Plastics and Related Products	Plastics-Determination of flexural properties	(0 ~ 1 000) MPa (0 ~ 1 000) %	BS-1	N
ISO 179-2:2020	Plastics and Related Products	Plastics - Determination of Charpy impact properties - Part 2: Instrumented impact test	(0 ~ 300) kJ/m^2	SF-1	N
ISO 527-2:2012	Plastics and Related Products	Plastics-Determination of tensile properties-Part 2: Test conditions for moulding and extrusion plastics	(0 ~ 1 000) MPa (0 ~ 1 000) %	BS-1	N
ISO 4589-1:2017	Plastics and Related Products	Plastics-Determination of Burning Behavior by Oxygen Index-Part 1: General requirements	-	BS-1	N
ISO 4589-2:2017	Plastics and Related Products	Plastics-Determination of Burning Behavior by Oxygen Index-Part 2, ambient-Temperature test	(0 ~ 99.0) %	BS-1	N
ISO 5659-2:2017	Plastics and Related Products	Plastics-Smoke generation-Part 2: Determination of optical density by a single-chamber test	Ds (0.1 ~ 1 000)	BS-1	N
KS F 4911:2019	Plastics and Related Products	Waterproofing sheets of synthetic polymer		BS-1	N
		6.5 Weight per Unit Area	(0 ~ 1 000) g/m^2		
		6.6 Tensile Properties	(0 ~ 100) MPa		
KS M 0602:2010	Plastics and Related Products	Measuring methods for specific gravity of solid	(0 ~ 2.000)	BS-1	N
KS M 3001:2022	Plastics and Related Products	Testing methods for mechanical characteristics of polyethylene film		BS-1	N
		6. Tensile Strength and	(0 ~ 100) N/cm^2		

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01. Mechanical Test

01.010 Plastics and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Elongation	(0 ~ 1 000) %		
		7. Tear Strength	(0 ~ 100) kN/cm		
KS M ISO 4589-2:2017	Plastics and Related Products	Plastics-Determination of burning behaviour by oxygen index-Part 2: Ambient-temperature test	(0 ~ 99.0) %	BS-1	N
KS M ISO 5659-2:2017	Plastics and Related Products	Plastics－Smoke generation－Part 2 : Determination of optical density by a single-chamber test	Ds (0.1 ~ 1 000)	BS-1	N
KS M ISO 9772:2012	Plastics and Related Products	Cellular plastics-Determination of horizontal burning characteristics of small specimens subjected to a small flame	(1 ~ 100) mm (0 ~ 3 600) s	BS-1	N
KS M ISO 9773:1998	Plastics and Related Products	Plastics-Determination of burning behaviour of thin flexible vertical specimens in contact with a small- flame ignition source	(0 ~ 3 600) s	BS-1	N
SPS-KPS M 6000-0842:2019	Plastics and Related Products	High Density Polyethylene Flexible Membrane Liners 7.2 Dimension	(0 ~ 12) mm (0 ~ 200) cm	BS-1	N
		7.4 Density	(0 ~ 2.000) g/cm^3		
		7.6 Carbon Black Dispersion	(1 ~ 5) grade		
		7.7 Tensile Properties	(0 ~ 100) N/cm^2 (0 ~ 1 000) %		
		7.8 Tear Strength	(0 ~ 100) kN/cm		
		7.9 Puncture Strength	(0 ~ 100) kN/cm		
		7.11 Dimensional Stability	(0.1 ~ 100) %		
		7.12 ESCR, Environmental Stress Crack Resistance Test	(1 ~ 1 500) h		
		7.16 Bonding Properties	(0 ~ 1 000) N/mm^2 (0 ~ 1 000) N/mm		
		7.17 NCTL, Notched Constant Tensile Load	(1 ~ 1 500) h		
		7.3 Melting Index	(0 ~ 100) g/10 min		

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01. Mechanical Test

01.010 Plastics and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		7.5 Carbon Black Contents	(0 ~ 100) %	SF-1	N
		7.10 Cold Crack Resistance	Visual		
		7.13 OIT, Oxidative Induction Time	(1 ~ 1 500) min		
		7.14 OIT after Oven Ageing	(0 ~ 100) %		
		7.15 OIT after UV Exposure	(0 ~ 100) %		
UL 94:2023	Plastics and Related Products	Tests for Flammability of Plastic Materials for Parts in Devices and Appliances	(0 ~ 3 600) s (1 ~ 100) mm	BS-1	N
ASTM D 2990-17	Plastics and Related Products	Standard Test Methods for Tensile, Compressive, and Flexural Creep and Creep-Rupture of Plastics	(20 ~ 110) ℃, (0.1 ~ 100 000) N, (0.1 ~ 10) %	BS-1	N
ASTM D3479/D3479M-19(2023)	Plastics and Related Products	Standard Test Method for Tension-Tension Fatigue of Polymer Matrix Composite Materials	(0.1~10 000) N, (0.1 ~ 5) %	BS-1	N
ASTM D7337/D7337M-12(2019)	Plastics and Related Products	Standard Test Method for Tensile Creep Rupture of Fiber Reinforced Polymer Matrix Composite Bars	(20 ~ 110) ℃, (0.1 ~ 100 000) N, (0.1 ~ 10) %	BS-1	N
JIS K 7115:1999	Plastics and Related Products	Plastics - Determination of creep behaviour - Part 1: Tensile creep	(20 ~ 110) ℃ (0.1 ~ 100 000) N, (0.1 ~ 10) %	BS-1	N
JIS K 7201-1:2021	Plastics and Related Products	Plastics-Determination of Burning Behaviour by Oxygen Index-Part 1, general requirements	-	BS-1	N
JIS K 7201-2:2021	Plastics and Related Products	Plastics-Determination of Burning Behaviour by Oxygen Index-Part 2, Ambient Temperature test	(0.1 ~ 99.0) %	BS-1	N
KS M ISO 13003:2012	Plastics and Related Products	Fibre-reinforced plastics-Determination of fatigue properties under cyclic loading conditions	(0.1 ~ 10 000) N, (0.1 ~ 5) %	BS-1	N
KS M ISO 527-2:2012	Plastics and Related Products	Plastics-Measurement of tesile strength-Part2:Test conditions for molding and extrusion plastics	(0.1 ~ 100 000) N, (0.1 ~ 10) %	BS-1	N
KS M ISO	Plastics and	Plastics-Determination of creep	(0.1 ~ 100 000) N,	BS-1	N

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01. Mechanical Test

01.010 Plastics and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
899-1:2017	Related Products	behavior-Part 1: Tensile creep	(0.1 ~ 10) %		
KS L 9016:2010	Plastics and Related Products	Test Methods For Thermal Transmission Properties Of Thermal Insulations 6.3 Flat plate heat current thermometer method	0.005 W/(m·K) or more	BS-1	N
KS L ISO 8301:1991	Plastics and Related Products	Thermal insulation - Determination ofsteady - state thermal resistance andrelated properties - Heat flow meterapparatus	0.005 W/(m·K) or more	BS-1	N
KS M 3808:2021	Plastics and Related Products	Cellular polystyrene(PS) for thermalinsulation		BS-1	N
		6.4 Apperance	Visual		
		6.5 Dimension	0.01 mm or more		
		6.6 Density	0.1 kg/m^3 or more		
		6.7 Thermal conductivity	0.005 W/(m·K) or more		
		6.8 Flexural strength	0.1 N or more		
		6.9 Compressive strength	0.1 N/cm^2 or more		
		6.10 Water absorption	0.01 g / 100 cm^2 or more		
		6.11 Inflammability	0.1 s or more, (0 ~ 300) mm		
		6.12 Flame Retardant	(0 ~ 15) min, (0 ~ 1 350) ℃, (0 ~ 100) kW/m^2		
		Annex A : Coefficient of moisture permeability	1 ng/m^2·s·Pa or more		
KS M 3809:2021	Plastics and Related Products	Rigid polyurethane form for thermal insulation		BS-1	N
		5.4 Apperance	Visual		
		5.5 Dimension	0.01 mm or more		
		5.6 Density	0.1 kg/m^3 or more		
		5.7 Thermal conductivity	0.005 W/(m·K) or more		
		5.8 Flexural strength	0.1 N or more		
		5.9 Compressive strength	0.1 N/cm^2 or more		
		5.10 Water absorption	0.01 g / 100 cm^2 or more		
		5.11 Inflammability	0.1 s or more,		

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01. Mechanical Test

01.010 Plastics and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
			(0 ~ 300) mm		
		5.12 Flame Retardant	(0 ~ 15) min,		
			(0 ~ 1 350) ℃,		
			(0 ~ 100) kW/m^2		
		Annex A : Coefficient of moisture permeability	1 ng/m^2·s·Pa or more		
		Annex B : Rust test	0.1 % or more		
KS M ISO 11561:2009	Plastics and Related Products	Ageing of thermal insulationmaterials-Determination of the long-term change in thermal resistance of closed-cell plastics (accelerated laboratory test methods) 6 Method B - Simplified test to determine a design life-time thermal resistance of anunfaced product	1 (m^2·K)/W or more	BS-1	N
KS M ISO 1209-1:2007	Plastics and Related Products	Cellular plastics, rigid - Flexural tests Part 1 : Bending test	0.1 N or more	BS-1	N
KS M ISO 1663:2007	Plastics and Related Products	Rigid cellular plastics - Determination of water vapour transmission properties	1 ng/(m·s·Pa) or more	BS-1	N
KS M ISO 1923:2010	Plastics and Related Products	Cellular plastics and rubbers - Determination of linear dimensions	0.01 mm or more	BS-1	N
KS M ISO 2796:2005	Plastics and Related Products	Cellular plastics, rigid - Test for dimensional stability	0.1 % or more	BS-1	N
KS M ISO 2896:2001	Plastics and Related Products	Rigid cellular plastics - Determination of water absorption	0.1 % or more	BS-1	N
KS M ISO 4898:2018	Plastics and Related Products	Rigid cellular plastics-Thermal insulation products for buildings-Specifications		BS-1	N
		8.1 Linear dimensions	0.01 mm or more		
		8.2 Density	0.1 kg/m^3 or more		
		8.3 Compressive strength	0.1 kPa or more		
		8.4 Thermal conductivity and resistance	5 mW/(m·K) or more		
		8.5 Dimensional stability	0.1 % or more		
		8.6 Compressive creepat a high temperature	0.1 % or more		
		8.7 Water vapor permeance	1 ng/(Pa·s·m) or more		
		8.8 Water absorption	0.1 % or more		

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01. Mechanical Test

01.010 Plastics and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		8.9 Flexural strength	0.1 N or more		
		8.10 Inflammability	(1 ~ 100) mm (0 ~ 3 600) s		
		8.11 Flame Retardant	(0 ~ 15) min (0 ~ 100) kW/m^2		
		8.12 Formaldehyde	0.001 mg/(m^2·h) or more		
		8.13 Toluen	0.001 mg/(m^2·h) or more		
		8.14 Total Volatile Organic Compounds(TVOCs)	0.001 mg/(m^2·h) or more		
KS M ISO 7616:2005	Plastics and Related Products	Cellular plastics, rigid — Determination of compressive creep under specified load and temperature conditions	0.1 % or more	BS-1	N
KS M ISO 844:2014	Plastics and Related Products	Rigid cellular plastics - Determination of compression properties	0.1 MPa or more	BS-1	N
KS M ISO 845:2006	Plastics and Related Products	Cellular plastics and rubbers - Determination of apparent density	0.1 kg/m^3 or more	BS-1	N
KS F 3211:2015	Plastics and Related Products	Waterproofing membrane coating for construction	(0 ~ 10 000) N (1 ~ 1 000) %	SF-1	N
		6.3 Tensile performance			
KS M 6519:2018	Plastics and Related Products	Method of analysis for rubber goods	(0.001 ~ 2.000)	SF-1	N
		7.1 Specific gravity characteristics			
KS F 3888-1:2022	Plastics and Related Products	Aritificial Turf System		SF-1	N
		6.2 Shock Absorption	(0.1 ~ 100.0) %		
		6.3 Vertical Deformation	0.1 mm or more		
		6.4 HIC Test	(0 ~ 3 000) mm		
		6.5 Rotational Resistance (Method A)	(0 ~ 70) N·m		
		6.7 Skin/Surface Friction	0.01 or more		
		6.8 Ball Rebound	(0 ~ 2) m		
		6.9 Ball Roll (Method A)	(0 ~ 50) m		
		6.11 Infiltration rate	(0 ~ 2 000) mm/h		

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01. Mechanical Test

01.010 Plastics and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		6.12 Simulated wear	(0.1 ~ 100.0) % 0.1 mm or more (0 ~ 1) kN		
		Annex B Artificial turf			
		B.5.4 Yarn fineness	0.1 Denier or more		
		B.5.5 Tarn fineness per Filament	0.1 Denier per Filament or more		
		B.5.6 Total weight	1 g/m^2 or more		
		B.5.7 Surface pile weight per unit area	1 g/m^2 or more		
		B.5.8 Total weight of artificial turf	1 g/m^2 or more		
		B.5.9 Weight rate of total pile and artificial turf	(0 ~ 100) %		
		B.5.10 Turfs per unit area	1 ea or more		
		B.5.11 Pile length	0.01 mm or more		
		B.5.12 Wear strength	(0 ~ 100) %		
		B.5.14 Joint strength	(0 ~ 1) kN		
		B.5.15 Turf withdrawal force	(0 ~ 1) kN , (0 ~ 100) %		
		B.5.16 Light exposure	(0 ~ 1) kN (1 ~ 5) grade		
		Annex C Shockpads / elastic layers			
		C.2.2 Compression set	(0 ~ 100) %		
		C.2.3 Dimensional change	(-100 ~ 100) %		
		C.2.4 Tensile strength and elongation	0.1 MPa or more, 0.1 % or more		
		C.2.5 Ozone resistance	0.1 MPa or more, 0.1 % or more		
		C.2.6 Shock absorption	(0.1 ~ 100.0) %		
		Annex D Infill			
		D.5.1 Particle size	(0 ~ 100) %		
		D.5.2 Specific gravity	(0.001 ~ 2.000)		

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01. Mechanical Test

01.010 Plastics and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		D.5.3 Heat resistance	(0.1 ~ 100) %		
		D.5.4 Impact resistance	(0.1 ~ 100) %		
		B.5.13 Flammability	0.1 s or more, 0.1 cm or more	BS-1	N
KS F 3888-2:2016	Plastics and Related Products	Outdoor sports facilities - Elastic paving materials		SF-1	N
		8.1 Specific gravity of rubber powder	0.001 g or more		
		8.8 Tensile strength and elongation of urethane	(0 ~ 10 000) N (1 ~ 1 000) %		
		8.11 Tensile strength and Elongation	0.1 MPa or more, 0.1 % or more		
		8.12 Linear friction-stud slide value	(0 ~ 150) BPN		
		8.13 Shock absorption performance	(0.1 ~ 100.0) %		
		8.14 Vertical deformation	0.1 mm or more		
		8.15 Hardness	(0 ~ 90) Hs		
KS M 3802:2022	Plastics and Related Products	Floorcovering - PVC		BS-1	N
		4.1 Appearance	Appearance		
		7.5 Dimensions and squareness of floor tile	0.01 mm or more		
		7.6 Dimensions of floor sheet	0.01 mm or more		
		7.7 Indentation test	0.01 mm or more		
		7.8 Residual indentation test	0.01 mm or more, 0.1 % or more		
		7.9 Length changes by heating test	0.01 % or more		
		7.10 Length changes by water absorption test	0.01 % or more		
		7.11 Thermal expansion coefficient test	1.0 $℃^{-1}$ or more		
		7.12 Curling test	0.01 mm or more		
		7.13 Stain resistance test	Appearance		

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01. Mechanical Test

01.010 Plastics and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		7.16 Abrasion resistance test	0.01 mg or more		
		7.17 Incombustibility test	(0 ~ 15) min 0.01 mm or more		
		7.18 Density test	0.1 kg/m^3 or more		
		7.19 Peeling Strength test	0.1 N or more		
		7.20 Tensile Strength and Tear Strength test	0.1 N/cm^2 or more, 0.1 N/cm or more		
KS F 3211:2015	Plastics and Related Products	waterproofing membrane coating for construction		BS-1	N
		6.4 Tear Performance	0.1 N/mm or more		
		6.5 Temperature dependency	0.1 % or more		
		6.6 Heating elingation and shrinkage state	± 0.1 % or more		
		6.7 Tensile performance afterdegradation treatment (Exceptaccelerated exposure treatment)	0.1 % or more		
		6.8 Degradation state at elongation (Except accelerated exposure treatment, ozone exposure treatment)	0.1 % or more		
		6.9 Adhesive strength	0.1 N/mm^2 or more, Appearance		
		6.10 Fatigue resistance test	Appearance		
		6.11 Sagging resistance performance	0.1 mm or more Appearance		
		6.12 Solids content	0.1 % or more		
		6.13 Endurance performance	0.1 % or more		
KS F 4760:2022	Plastics and Related Products	Raised axxess floor 5.1 Appearance	Appearance	BS-1	N
		7.3 Dimensional measurement	0.1 mm or more, 0.1 % or more		

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01. Mechanical Test

01.010 Plastics and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		7.4 Load performance test	0.1 N or more, 0.1 mm or more, Appearance		
		7.5 Combustion test	0.1 s or more		
		7.7 Corrosion resistance performance test	0B ~ 5B Appearance		
KS F 4911:2019	Plastics and Related Products	Waterproofing sheets of synthetic polymer		BS-1	N
		6.2 Appearance	Appearance		
		6.3 Dimension measuremest	0.01 mm or more		
		6.7 Tear Performance	0.1 N/mm or more		
		6.8 Temperature dependency	0.1 MPa or more, 0.1 % or more		
		6.9 Heating elingation and shrinkage state	± 0.1 mm or more		
		6.10 Tensile performance afterdegradation treatment (Exceptaccelerated exposure treatment)	0.1 % or more		
		6.11 Degradation state at elongation (Except accelerated exposure treatment, ozone exposure treatment)	Appearance		
		6.12 Joint Properties	0.1 mm or more, Appearance		
		6.13 Joint tensile performance	0.1 N/mm or more		
KS F 4922:2022	Plastics and Related Products	Polyurea resin waterproofing membrane coating		BS-1	N
		5.2.5 Appearance	Appearance		
		5.2.6 Tensile Performance Test	0.1 N/mm^2 or more, 0.1 % or more		
		5.2.7 Tear Performance Test	0.1 N/mm or more		
		5.2.8 Temperature dependency Test	0.1 % or more		

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01. Mechanical Test

01.010 Plastics and Related Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		5.2.9 Stretching properties by Heating	± 0.1 % or more		
		5.2.10 Tensile performance afterdegradation treatment (ExceptFacilitate exposure)	0.1 % or more		
		5.2.11 Degradation performance duringelongation (Except Facilitate exposure)	0.1 % or more		
		5.2.12 Adhesive strength	0.1 N/mm^2 or more, Appearance		
		5.2.13 Fatigue resistance test	Appearance		

01. Mechanical Test

01.016 Construction and construction materials

Test method	Products and materials	Standard designation	Test range	Site	Field testing
KS F 2236:1999	Construction and construction materials	Doorsets - Soft heavy body impact test	(0 ~ 100) cm	SF-1	N
KS F 2237:2017	Construction and construction materials	Windows and doors - Standard test method for determination of opening and closing forces	(0 ~ 200) N	SF-1	N
KS F 2273:2020	Construction and construction materials	Methods of performance test forbuilding constructionpanels 7.9 simple bending test	(0 ~ 100) kN	SF-1	N
KS F 2292:2019	Construction and construction materials	The method of air tightness for windows and doors	(0 ~ 250) Pa	SF-1	N
KS F 2293:2008	Construction and construction materials	Test method of water tightness for windows and doors	(0 ~ 1 000) Pa	SF-1	N
KS F 2296:2019	Construction and construction materials	Windows and doorsets - Wind resistance test	(0 ~ 3 600) Pa	SF-1	N
KS F 2630:2007	Construction and construction materials	Doorsets - Static torsion test	(0 ~ 600) N	SF-1	N

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01. Mechanical Test

01.016 Construction and construction materials

Test method	Products and materials	Standard designation	Test range	Site	Field testing
KS F 2631:2007	Construction and construction materials	Doorsets - Vertical load test	(0 ~ 50) ㎜, (0 ~ 1 000) N	SF-1	N
KS F 2632:2007	Construction and construction materials	Doorsets - Repeated opening and closing test	(0 ~ 100 000) times	SF-1	N
KS F 2822:2014	Construction and construction materials	Smoke-proof test method for fire damper	(0 ~ 100) ㎩	SF-1	N
KS F 2846:2013	Construction and construction materials	Methods for measuring smoke penetration through door assemblies	(0 ~ 250) ㎩	SF-1	N
KS F 3109:2021	Construction and construction materials	Doorsets 7. Dimensions 9.2 Torsional strength Test 9.3 Vertical load strength Test 9.4 Opening and closing forces Test 9.5 Opening and closing repeatability Test 9.6 Impact Test 9.7 Wind resistance Test 9.8 Air Tightness Test 9.9 Water Tightness Test 9.13 smoke penetration test 9.16 Safety Test	- (0 ~ 5 500) ㎜ (0 ~ 600) N (0 ~ 50) ㎜, (0 ~ 1 000) N (0 ~ 200) N (0 ~ 100 000) times (0 ~ 100) cm (0 ~ 3 600) ㎩ (0 ~ 250) ㎩ (0 ~ 1 000) ㎩ (0 ~ 250) ㎩ Appearance	SF-1	N
KS F 3117:2019	Construction and construction materials	Window sets 9.2 Opening and closing force test 9.3 Opening and closing repeatability test 9.4 Wind resistance test 9.5 Air tightness test 9.6 Water tightness test	- (0 ~ 200) N (0 ~ 100 000) times (0 ~ 3 600) ㎩ (0 ~ 250) ㎩ (0 ~ 1 000) ㎩	SF-1	N
KS F 4534:2022	Construction and construction materials	Fittings for sash windows 7.2 Roller test a) Durability test	- (0 ~ 100 000) times	SF-1	N
KS F 4724:2017	Construction and construction	Steel panel for wall in buildings 6.2.6 Test Method of the	- (0 ~ 100) kN	SF-1	N

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01. Mechanical Test

01.016 Construction and construction materials

Test method	Products and materials	Standard designation	Test range	Site	Field testing
	materials	Distributed pressure resistance			
KS F 8081:2018	Construction and construction materials	Vertical protective net 6.5 Drop test	- Appearance	SF-1	N
KS F 8082:2018	Construction and construction materials	Horizontal safety net 7.5 Weight drop test	- Appearance, (0 ~ 50 G)	SF-1	N
KS F 8083:2018	Construction and construction materials	Debris net 6.3 Drop test 6.4 Impact test	 Appearance (0 ~ 600) mm	SF-1	N
KS L 2006:2008	Construction and construction materials	Wire glasses 7.2 e) Heat test and impact test after heating	- (0 ~ 1200) ℃, (0 ~ 50) cm	SF-1	N

02. Chemical Test

02.006 Organic Metarials and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
KATS Notice No.2023-330 (09.01.2023.)	Organic Metarials and Products	Safety confirmation Annex 67 Indoor Floorcoverings		BS-1	N
		Polyvinyl Chloride Floorcoverings			
		4.2. Phthalates	each 0.01 % or more		
EN 14372:2004	Organic Metarials and Products	Child use and care articles-Cutlery and feeding utensils-Safety requirements and tests		BS-1	N
		Sb	15 mg/kg or more		
		As	10 mg/kg or more		

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02. Chemical Test

02.006 Organic Metarials and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Ba	100 mg/kg or more		
		Cd	20 mg/kg or more		
		Pb	25 mg/kg or more		
		Cr	10 mg/kg or more		
		Hg	10 mg/kg or more		
		Se	100 mg/kg or more		
		각 Phthalate	0.01 % or more		
		VOCs	0.5 %(m/m) or more		
		Formaldehyde	15 mg/kg or more		
		Nickel release	0.5 μg/cm²/week or more		
		Bisphenol A	0.03 μg/mL or more		
EPA 3052:1996	Organic Metarials and Products	Microwave Assisted Acid Digestion of Siliceous and Organically Based Matrices	-	BS-1	N
KS F 3888-1:2022	Organic Metarials and Products	Artificial Turf Systems		BS-1	N
		Annex B Artificial Turf B.5.18 Test Method of Artificial Turf			
		B.5.18.1 Heavy Metals			
		Heavy Metals (Content)			
		- Pb	5 mg/kg or more		
		- Cd	1 mg/kg or more		
		- Cr^{6+}	1 mg/kg or more		
		- Hg (CV-AAS, TDA-AAS)	1 mg/kg or more		
		Heavy Metals (Elution)			
		- Al	250 mg/kg or more		
		- Sb	5 mg/kg or more		
		- As	3 mg/kg or more		

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02. Chemical Test

02.006 Organic Metarials and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		- Ba	5 mg/kg or more		
		- B	250 mg/kg or more		
		- Cr	5 mg/kg or more		
		- Co	10 mg/kg or more		
		- Cu	50 mg/kg or more		
		- Mn	250 mg/kg or more		
		- Ni	10 mg/kg or more		
		- Se	5 mg/kg or more		
		- Sr	250 mg/kg or more		
		- Sn	5 mg/kg or more		
		- Zn	250 mg/kg or more		
		Organo tin(MeT, BuT, DProT, DBT, TBT, MOT, TeBT, DPhT, DOT, TPhT)	each 0.5 mg/kg or more		
		B.5.18.2 T-VOCs			
		- Benzene	0.5 mg/kg or more		
		- Toluene, Ethylbenzene, Xylene	each 1 mg/kg or more		
		B.5.18.3 PAHs	each 0.5 mg/kg or more		
		B.5.18.4 Phthalate Plasticizer (DBP, BBP, DEHP, DINP, DNOP, DIDP)	each 0.01 % or more		
		Annex C Shock Absorbing Pad/Drain Board C.2 Test Method of Shock Absorbing Pad/Drain Board			
		C.2.9 Heavy Metals			
		Heavy Metals (Content)			
		- Pb	5 mg/kg or more		
		- Cd	1 mg/kg or more		
		- Cr^{6+}	1 mg/kg or more		
		- Hg (CV-AAS, TDA-AAS)	1 mg/kg or more		

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02. Chemical Test

02.006 Organic Metarials and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Heavy Metals (Elution)			
		- Al	250 mg/kg or more		
		- Sb	5 mg/kg or more		
		- As	3 mg/kg or more		
		- Ba	5 mg/kg or more		
		- B	250 mg/kg or more		
		- Cr	5 mg/kg or more		
		- Co	10 mg/kg or more		
		- Cu	50 mg/kg or more		
		- Mn	250 mg/kg or more		
		- Ni	10 mg/kg or more		
		- Se	5 mg/kg or more		
		- Sr	250 mg/kg or more		
		- Sn	5 mg/kg or more		
		- Zn	250 mg/kg or more		
		Organo tin(MeT, BuT, DProT, DBT, TBT, MOT, TeBT, DPhT, DOT, TPhT)	each 0.5 mg/kg or more		
		C.2.10 T-VOCs			
		- Bnezene	0.5 mg/kg or more		
		- Toluene, Ethylbenzene, Xylene	each 1 mg/kg or more		
		C.2.11 PAHs	each 0.5 mg/kg or more		
		C.2.12 Phthalate Plasticizer			
		(DBP, BBP, DEHP, DINP, DNOP, DIDP)	each 0.01 % or more		
		Annex D Elastic chip			
		D.5 Quality of Elastic chip			
		D.5.5 Heavy Metals			
		Heavy Metals (Content)			
		- Pb	5 mg/kg or more		

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02. Chemical Test

02.006 Organic Metarials and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		- Cd	1 mg/kg or more		
		- Cr^{6+}	1 mg/kg or more		
		- Hg (CV-AAS, TDA-AAS)	1 mg/kg or more		
		Heavy Metals (Elution)			
		- Al	250 mg/kg or more		
		- Sb	5 mg/kg or more		
		- As	3 mg/kg or more		
		- Ba	5 mg/kg or more		
		- B	250 mg/kg or more		
		- Cr	5 mg/kg or more		
		- Co	10 mg/kg or more		
		- Cu	50 mg/kg or more		
		- Mn	250 mg/kg or more		
		- Ni	10 mg/kg or more		
		- Se	5 mg/kg or more		
		- Sr	250 mg/kg or more		
		- Sn	5 mg/kg or more		
		- Zn	250 mg/kg or more		
		Organo tin(MeT, BuT, DProT, DBT, TBT, MOT, TeBT, DPhT, DOT, TPhT)	each 0.5 mg/kg or more		
		D.5.7 T-VOCs			
		- Bnezene	0.5 mg/kg or more		
		- Toluene, Ethylbenzene, Xylene	each 1 mg/kg or more		
		D.5.8 PAHs	each 0.5 mg/kg or more		
		D.5.9 Phthalate Plasticizer			
		(DBP, BBP, DEHP, DINP, DNOP, DIDP)	each 0.01 % or more		
KS F 3888-2:2016	Organic Metarials and Products	Outdoor sports facilities - Elastic paving materials		BS-1	N
		5.1 Rubber Powder			

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02. Chemical Test

02.006 Organic Metarials and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		T-VOC			
		- Benzene	more than 0.5 mg/kg		
		- Toluene, Ethyl benzene, Xylene	each 1 mg/kg or more		
		5.2 polyurethane binder			
		- Contents of Isocyanate Group,	Max. 10 %,		
		- Specific gravity,	(0.10 ~ 2.00)		
		- Non-volatile residues,	Max. 100 %,		
		- Viscosity	Max. 20 000 cP		
		6. Quality of Elastic paving materials			
		PAHs	each 0.5 mg/kg or more		
		Heavy Metals(Content)			
		- Pb	more than 5 mg/kg		
		- Cd	more than 1 mg/kg		
		- Cr^{6+}	more than 1 mg/kg		
		- Hg(CV-AAS, TDA-AAS)	more than 1 mg/kg		
		Heavy Metals(Elution)			
		- Al	more than 250 mg/kg		
		- Sb	more than 5 mg/kg		
		- As	more than 3 mg/kg		
		- Ba	more than 5 mg/kg		
		- B	more than 250 mg/kg		
		- Cr	more than 5 mg/kg		
		- Co	more than 10 mg/kg		
		- Cu	more than 50		

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02. Chemical Test

02.006 Organic Metarials and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
			mg/kg		
		- Mn	more than 250 mg/kg		
		- Ni	more than 10 mg/kg		
		- Se	more than 5 mg/kg		
		- Sr	more than 250 mg/kg		
		- Sn	more than 5 mg/kg		
		- Zn	more than 250 mg/kg		
		Phthalate Plasticizer (DBP, BBP, DEHP, DINP, DNOP, DIDP)	each 0.01 % or more		
		Organo tin(MeT, BuT, DProT, DBT, TBT, MOT, TeBT, DPhT, DOT, TPhT)	each more than 0.5 mg/kg		
KS M 0180:2009	Organic Metarials and Products	Standard Test Method for halogen(F, Cl, Br) and sulfur content by Oxidative Pyrohydrolytic Combustion followed by Ion Chromatography Detection(Combustion Ion Chromatography-CIC)	(30 ~ 1 500) mg/kg	BS-1	N
KS M 1993-1 :2020	Organic Metarials and Products	Determination of emissive organic compounds in solid and/or semi-solid products-Part 1: Volatile organic compounds-Headspace-gas chromatography	each 20 mg/kg or more	BS-1	N
KS M 1993-2 :2020	Organic Metarials and Products	Determination of emissive organic compounds in solid and/or semi-solid products-Part 2: Formaldehyde and other carbonyl compounds-High performance liquid chromatography	each 20 mg/kg or more	BS-1	N

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02. Chemical Test

02.006 Organic Metarials and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
KS M 6956:2022	Organic Metarials and Products	Test method for estimating the toxicity of recycled rubber powder 4. Test Items 4.1 Pb 4.2 Cd 4.7 Cr6+ 4.6 Hg(CV-AAS,TDA-AAS) 4.8 T-VOCs - Benzene - Toluene, Ethylbenzene, Xylene PAHs	- - -- more than 5 mg/kg more than 1 mg/kg more than 1 mg/kg more than 1 mg/kg - more than 0.5 mg/kg each 1 mg/kg or more each 0.5 mg/kg or more	BS-1	N
KS F 8980 : 2020	Organic Metarials and Products	Water permeable cork paving materials 5.1.2 Polyurethane binder Contents of Isocyanate Group Non-volatile residues 5.2 Quality of Water permeable cork paving materials TVOCs Benzene Toluene Ethylbenzene Xylene PAHs Heavy Metals(Elution) As	 (1 ~ 100) % (1 ~ 100) % 0.5 mg/kg or more 1 mg/kg or more 1 mg/kg or more 1 mg/kg or more each 0.5 mg/kg or more 0.05 mg/L or more	BS-1	N

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02. Chemical Test

02.006 Organic Metarials and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Cd Cr Pb Hg	0.004 mg/L or more 0.007 mg/L or more 0.04 mg/L or more 0.000 5 mg/L or more		

02. Chemical Test

02.007 Dosimetry, Radioactive, Neutron measurement

Test method	Products and materials	Standard designation	Test range	Site	Field testing
KS C IEC 61452:1995	Dosimetry, Radioactive, Neutron measurement	Nuclear instrumentation-Measurement of gammaray emission rates of radionuclides- Calibration and use of germanium spectrometers	Range from 59 keV to 3 000 keV radionuclide (unit : Bq/kg) ^{40}K > 5.0 ^{60}Co > 2.0 ^{134}Cs > 1.0 ^{137}Cs > 1.5 ^{226}Ra(at equilibrium ^{214}Bi, ^{214}Pb)> 2.0 ^{232}Th(at equilibrium ^{228}Ac, ^{212}Pb)> 1.0	BS-1	N
IEC 61452:2021	Dosimetry, Radioactive, Neutron measurement	Nuclear instrumentation – Measurement of activity or emission rate of gammaray emitting radionuclides – Calibration and use of germanium-based spectrometers	Range from 59 keV to 3 000 keV radionuclide (unit : Bq/kg) ^{40}K > 5.0 ^{60}Co > 2.0 ^{134}Cs > 1.0 ^{137}Cs > 1.5 ^{226}Ra(at equilibrium	BS-1	N

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02. Chemical Test

02.007 Dosimetry, Radioactive, Neutron measurement

Test method	Products and materials	Standard designation	Test range	Site	Field testing
			^{214}Bi, ^{214}Pb) > 2.0 ^{232}Th(at equilibrium ^{228}Ac, ^{212}Pb) > 1.0		
KS A ISO 18589-3:2012	Dosimetry, Radioactive, Neutron measurement	Measurement of radioactivity in the environment - Soil - Part 3: Measurement of gamma-emitting radionuclides	Range from 40 keV to 2 MeV radionuclide (unit : Bq/kg or Bq/L) ^{40}K > 5.0 ^{60}Co > 2.0 ^{134}Cs > 1.0 ^{137}Cs > 1.5 ^{226}Ra(at equilibrium ^{214}Bi, ^{214}Pb) > 2.0 ^{232}Th(at equilibrium ^{228}Ac, ^{212}Pb) > 1.0	BS-1	N

02. Chemical Test

02.008 Other Material and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
MFDS Notice No.2022-097(12.29.2022.)	Food utensils and containers	Standards and Specifications for Food Utensils, Containers and Packages		BS-1	N
		1-8 vinyl chloride			
		(poly(vinyl chloride)(PVC)			
		2) Residue Specification			
		vinyl chloride	0.5 mg/kg or more		
		Dibutyltin compound(as dibutyltin dichloride)	10 mg/kg or more		
		Cresol esters of phosphoric acid	100 mg/kg or more		
		3) Migrant Specification			
		Lead	0.1 mg/L or more		
		Consumption of potassium	1.0 mg/L or more		

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02. Chemical Test

02.008 Other Material and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		permanganate			
		Overall migration(if n-heptane is used as the food simulant))	5 mg/L or more		
		Di-butylphthalate	0.1 mg/L or more		
		Benzyl-n-butylphthalate	0.1 mg/L or more		
		Di-(2-ethylhexyl)phthalate	0.1 mg/L or more		
		7) Di-n-octylphthalate	0.1 mg/L or more		
		8) Diisononylphthalate and Diisodecylphthalate (as sum)	0.1 mg/L or more		
		9) Di-(2-ethylhexyl)adipate	0.1 mg/L or more		
		1-1 olefinic Polyethylene			
		2) Migrant Specification			
		Pb	0.1 mg/L or more		
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration(if n-heptane used as the food simulant and using temperature is not more than 100 ℃)	5 mg/L or more		
		1-Hexene	1 mg/L or more		
		1-Octene	10 mg/L or more		
		1-1 olefinic Polypropylene 2) Migrant Specification			
		Pb	0.1 mg/L or more		
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration	5 mg/L or more		
		1-3 styrenic Polystyrene			
		2) Residue Specification			
		Volatile compound(as sum of styrene, toluene, ethyl benzene, isopropyl benzene and n-propyl benzene)	each 100 mg/kg or more		

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02. Chemical Test

02.008 Other Material and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Volatile compound in case of formed polystyrene used to boiling water(amount of styrene and ethyl benzene among total volatile organic compounds)			
		3) Migrant Specification			
		Pb	0.1 mg/L or more		
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration(if n-heptane is used as the food simulant)	5 mg/L or more		
		1-8 vinyl chloride Poly(vinylidene chloride)(PVDC)			
		2) Residue Specification			
		Vinylidene chloride	1 mg/kg or more		
		3) Migrant Specification			
		Pb	0.1 mg/L or more		
		Ba	0.1 mg/L or more		
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration	5 mg/L or more		
		1-2 ester Poly(ethyleneterephthalate)(PET)			
		2) Migrant Specification			
		Pb	0.1 mg/L or more		
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration	5 mg/L or more		
		Sb	0.02 mg/L or more		
		Ge	0.05 mg/L or more		
		Terephthalic acid	5 mg/L or more		
		Isophthalic acid	2.5 mg/L or more		
		1-6 aldehyde Phenol-formaldehyde resin(PF)			

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02. Chemical Test

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		2) Migrant Specification			
		Pb	0.1 mg/L or more		
		Overall migration	5 mg/L or more		
		Phenol	0.5 mg/L or more		
		Formaldehyde	1.0 mg/L or more		
		1-6 aldehyde Melamine-formaldehyde resin(MF)			
		2) Migrant Specification			
		Pb	1 mg/L or more		
		Overall migration	5 mg/L or more		
		Phenol	0.5 mg/L or more		
		Formaldehyde	1.0 mg/L or more		
		Melamine	1 mg/L or more		
		1-6 aldehyde Urea-formaldehyde resin(UF)			
		2) Migrant Specification			
		Pb	0.1 mg/L or more		
		Overall migration	5 mg/L or more		
		Phenol	0.5 mg/L or more		
		Formaldehyde	1.0 mg/L or more		
		1-6 aldehyde Polyacetal(polyoxymethylene(POM))			
		2) Migrant Specification			
		Pb	1 mg/L or more		
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration	5 mg/L or more		
		Formaldehyde	1.0 mg/L or more		
		1-5 acrylic Acrylic resin			
		2) Migrant Specification			
		Pb	0.1 mg/L or more		
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration	5 mg/L or more		

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02. Chemical Test

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Methylmethacrylate(in compliance with only the synthetic polymer containing above 50% of methylmethacrylate among the base polymers)	3 mg/L or more		
		1-4 amine Polyamide(PA)			
		2) Migrant Specification			
		Pb	0.1 mg/L or more		
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration	5 mg/L or more		
		Caprolactam	5 mg/L or more		
		Primary aromatic amine(sum as aniline, 4,4'-methylenedianiline and 2,4-toluenediamine)	0.01 mg/L or more		
		Ethylenediamine	5 mg/L or more		
		Hexamethylenediamine	1 mg/L or more		
		Laurolactam	1 mg/L or more		
		1-4 amine Polyurethane(PU)			
		2) Migrant Specification			
		Pb	0.1 mg/L or more		
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration	5 mg/L or more		
		Isocyanate	0.1 mg/L or more		
		4,4'-methylenedianiline	0.005 mg/L or more		
		1-1 olefinic Polybutene-1(PB-1)			
		2) Migrant Specification			
		Pb	0.1 mg/L or more		
		Consumption of potassium permanganate	1.0 mg/L or more		

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02. Chemical Test

02.008 Other Material and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Overall migration(not more than 150 if n-heptane used as the food simulant and using temperature is below 100℃, and not more than 120 if n-heptane used as the food simulant and using temperature is above 100℃)	5 mg/L or more		
		1-3 styrenic Acrylonitrile-butadiene-styrene copolymer (ABS) and Acrylonitrile-styrene copolymer(AS)			
		2) Residue Specification			
		Volatile compound(as sum of styrene, toluene, ethyl benzene, isopropyl benzene and n-propyl benzene)	each 100 mg/kg or more		
		1,3-butadiene(in compliance with only the acrylonitrile-butadiene-styrene copolymer)	0.5 mg/kg or more		
		3) Migrant Specification			
		Pb	0.1 mg/L or more		
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration(if n-heptane is used as the food simulant)	5 mg/L or more		
		Acrylonitrile	0.01 mg/L or more		
		1-3 styrenic Polymethacrylstyrene(MS)			
		2) Residue Specification			
		Volatile compound(s sum of styrene, toluene, ethyl benzene, isopropyl benzene and n-propyl benzene)	each 100 mg/kg or more		
		3) Migrant Specification			
		Pb	0.1 mg/L or more		

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02. Chemical Test

02.008 Other Material and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration(if n-heptane is used as the food simulant)	5 mg/L or more		
		Methylmethacrylate(in compliance with only the synthetic polymer containing above 50% of methylmethacrylate among the base polymers)	1 mg/L or more		
		1-2 ester Poly(butyleneterephthalate)(PBT)			
		2) Migrant Specification			
		Pb	0.1 mg/L or more		
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration	5 mg/L or more		
		Terephthalic acid	5 mg/L or more		
		Isophthalic acid	2.5 mg/L or more		
		1,4-butanediol	2 mg/L or more		
		1-7 etheric Polyarylsulfone(PASF)			
		2) Migrant Specification			
		Pb	0.1 mg/L or more		
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration	5 mg/L or more		
		Bisphenol A(as sum of phenol, bisphenol A and p-tert-butylphenol)(However, migrant specification of bisphenol A)	1(0.1) mg/L or more		
		4,4'-Dichlorodiphenyl sulfone	0.05 mg/L or more		
		1-2 ester Polyarylate(PAR)			
		2) Migrant Specification			
		Pb	0.1 mg/L or more		

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02. Chemical Test

02.008 Other Material and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration	5 mg/L or more		
		Terephthalic acid	5 mg/L or more		
		Isophthalic acid	2.5 mg/L or more		
		Bisphenol A(as sum of phenol, bisphenol A and p-tert-butylphenol)(However, migrant specification of bisphenol A)	1(0.1) mg/L or more		
		1-9 othrrs Fluorocarbon resin(FR)			
		2) Migrant Specification			
		Pb	0.1 mg/L or more		
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration	5 mg/L or more		
		1-2 ester Poly(ethylenenaphthalate)(PEN)			
		2) Migrant Specification			
		Pb	0.1 mg/L or more		
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration	5 mg/L or more		
		2,6-dimethylnaphthalene dicarboxylate	0.05 mg/L or more		
		1-9 othrrs Epoxy resin			
		2) Residue Specification			
		Amine(as sum of triethylamine and tributylamine)	1 mg/kg or more		
		3) Migrant Specification			
		Pb	0.1 mg/L or more		
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration	5 mg/L or more		

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02. Chemical Test

02.008 Other Material and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Bisphenol A(as sum of phenol, bisphenol A and p-tert-butylphenol)(However, migrant specification of bisphenol A)	1(0.1) mg/L or more		
		Bisphenol A diglycidyl ether(including bisphenol A diglycidyl ether dichloride and bisphenol A diglycidyl ether dihydrate)	0.5 mg/L or more		
		Bisphenol F diglycidyl ether(including bisphenol F diglycidyl ether dichloride and bisphenol F diglycidyl ether dihydrate)	0.5 mg/L or more		
		Epichlorohydrin	0.1 mg/L or more		
		4,4-methylenedianiline	0.005 mg/L or more		
		1-7 etheric Poly(phenylenesulfide)(PPS)			
		2) Migrant Specification			
		Pb	0.1 mg/L or more		
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration	5 mg/L or more		
		1,4-Dichlororbenzene	10 mg/L or more		
		1-7 etheric Poly(ethersulfone)(PES)			
		2) Migrant Specification			
		Pb	0.1 mg/L or more		
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration	5 mg/L or more		
		4,4'-dichlorodiphenylsulfone	0.05 mg/L or more		
		4,4'-dihydroxydiphenylsulfone	0.05 mg/L or more		
		1-4 amine Polyamide			
		2) Migrant Specification			
		Pb	0.1 mg/L or more		

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02. Chemical Test

02.008 Other Material and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration	5 mg/L or more		
		1-2 ester Polylactide(poly(lactic acid), PLA)			
		2) Migrant Specification			
		a) In case starch is not included			
		Pb	0.1 mg/L or more		
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration	5 mg/L or more		
		b) In case starch is included			
		Arsenic(As_2O_3)	0.02 mg/L or more		
		Pb	0.1 mg/L or more		
		Consumption of potassium permanganate (However, except non-water resistance container)	1.0 mg/L or more		
		Formaldehyde	5 mg/L or more		
		Fluorescence whitening agent	-		
		1-2 ester Butylenesuccinate-adipate copolymer (PBSA)			
		2) Migrant Specification			
		a) In case starch is not included			
		Pb	0.1 mg/L or more		
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration	5 mg/L or more		
		1,4-Butanediol	1 mg/L or more		
		b) In case starch is included			
		Arsenic(As_2O_3)	0.02 mg/L or more		
		Pb	0.1 mg/L or more		
		Consumption of potassium	1.0 mg/L or more		

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02. Chemical Test

02.008 Other Material and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		permanganate (However, except non-water resistance container)			
		Formaldehyde	1.0 mg/L or more		
		Fluorescence whitening agent	-		
		1,4-Butanediol	1 mg/L or more		
		1-2 ester Cross-linked polyester resin			
		2) Migrant Specification			
		Pb	0.1 mg/L or more		
		Consumption of potassium permanganate	1.0 mg/L or more		
		Overall migration	5 mg/L or more		
		Terephthalic acid	5 mg/L or more		
		Isophthalic acid	2.5 mg/L or more		
		2. Cellophane			
		a. Migrant Specification			
		Arsenic(As_2O_3)	0.02 mg/L or more		
		Pb	0.1 mg/L or more		
		Overall migration	5 mg/L or more		
		3. Rubber			
		a. Residue Specification			
		Pb(Rubber except rubber nipple)	10 mg/kg or more		
		Pb(Rubber nipple)	10 mg/kg or more		
		Cd(Rubber except rubber nipple)	10 mg/kg or more		
		Cd(Rubber nipple)	10 mg/kg or more		
		2-Mercaptoimidazoline (in compliance with only the rubber containing chlorine)	-		
		1,3-butadiene(in compliance with only the rubber material that contain 50% or more of 1,3-butadiene in base polymer)	0.5 mg/kg or more		

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02. Chemical Test

02.008 Other Material and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		b. Migrant Specification			
		Pb	0.1 mg/L or more		
		Overall migration(Rubber except rubber nipple)	5 mg/L or more		
		Overall migration(Rubber nipple)	5 mg/L or more		
		phenol	0.5 mg/L or more		
		Formaldehyde	1.0 mg/L or more		
		Zn(Rubber except rubber nipple)	1 mg/L or more		
		Zn(Rubber nipple)	1 mg/L or more		
		N-Nitrosamines(as sum of N-nitrosodimethylamine, N-nitrosodiethylamine, N-nitrosodi-n-propylamine, N-nitrosodi-n-buthylamine, N-nitrosopiperidine, N-nitrosopyrrolidine, N-nitroso morpholine)-in compliance with only the rubber nipple	0.01 mg/kg or more		
		N-Nitrosatable substances(as sum of N-nitrosodimethylamine, N-nitrosodiethylamine, N-nitrosodi-n-propylamine, N-nitrosodi-n-buthylamine, N-nitrosopiperidine, N-nitrosopyrrolidine, N-nitrosomorpholine)-in compliance with only the rubber nipple	0.1 mg/kg or more		
		4. Paper or Processed paper			
		b. Migrant Specification			
		Arsenic($As_2O_{3)}$	0.02 mg/L or more		
		Pb	1 mg/L or more		
		Formaldehyde	1.0 mg/L or more		

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Fluorescence whitening agent	-		
		5. Metal			
		a. Migrant Specification			
		Pb	0.04 mg/L or more		
		Cd	0.01 mg/L or more		
		Ni	0.01 mg/L or more		
		hexavalent chromium	0.01 mg/L or more		
		Arsenic(as $As_2O_{3)}$	0.02 mg/L or more		
		7. Glass, Ceramic, Porcelain enamel and Pottery			
		A. Glass			
		a. Sample's depth is over 2.5cm when liquid is filled			
		- Heat-cooking ware			
		- Pb	0.1 mg/L or more		
		- Cd	0.02 mg/L or more		
		- Other than heat-cooking ware (less than 600 mL)			
		- Pb	0.1 mg/L or more		
		- Cd	0.02 mg/L or more		
		- Other than heat-cooking ware (600 mL and more and less than 3 L)			
		- Pb	0.1 mg/L or more		
		- Cd	0.02 mg/L or more		
		- Other than heat-cooking ware (3 L and more)			
		- Pb	0.1 mg/L or more		

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02. Chemical Test

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		- Cd	0.02 mg/L or more		
		b. Sample that can not be filled with liquid or sample whose depth is less than 2.5 cm when liquid is filled			
		- Pb	1 μg/cm^2 or more		
		- Cd	0.5 μg/cm^2 or more		
		B. Ceramic and Pottery			
		a. Sample's depth is over 2.5cm when liquid is filled			
		- Heat-cooking ware			
		- Pb	0.1 mg/L or more		
		- Cd	0.02 mg/L or more		
		- As(as As2O3)(only limited to pottery)	0.02 mg/L or more		
		- Other than heat-cooking ware (less than 1.1 L)			
		- Pb	0.1 mg/L or more		
		- Cd	0.02 mg/L or more		
		- As(as As2O3)(only limited to pottery)	0.02 mg/L or more		
		- Other than heat-cooking ware (1.1 L and more and less than 3 L)			
		- Pb	0.1 mg/L or more		
		- Cd	0.02 mg/L or more		
		- As(as As2O3)(only limited to pottery)	0.02 mg/L or more		
		- Other than heat-cooking ware (3 L and more)			
		- Pb	0.1 mg/L or more		
		- Cd	0.02 mg/L or		

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02. Chemical Test

02.008 Other Material and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
			more		
		- As(as As2O3)(only limited to pottery)	0.02 mg/L or more		
		b. Sample that can not be filled with liquid or sample whose depth is less than 2.5 cm when liquid is filled			
		- Pb	1 μg/cm^2 or more		
		- Cd	0.5 μg/cm^2 or more		
		C. Porcelain enamel			
		a. Sample's depth is over 2.5cm when liquid is filled			
		- Heat cooking ware(less than 3 L)			
		- Pb	0.1 mg/L or more		
		- Cd	0.01 mg/L or more		
		- Sb	0.05 mg/L or more		
		- Heat cooking ware(3 L and more)			
		- Pb	1 μg/cm^2 or more		
		- Cd	0.5 μg/cm^2 or more		
		- Sb	1 μg/cm^2 or more		
		- Other than heat cooking ware(less than 3 L)			
		- Pb	0.8 mg/L or more		
		- Cd	0.07 mg/L or more		
		- Sb	0.1 mg/L or more		
		- other than heat cooking ware(3 L and more)			
		- Pb	1 μg/cm^2 or more		
		- Cd	0.5 μg/cm^2 or more		
		- Sb	1 μg/cm^2 or more		
		b. Sample that can not be filled			

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02. Chemical Test

02.008 Other Material and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		with liquid or sample whose depth is less than 2.5 cm when liquid is filled			
		- Heat cooling ware			
		- Pb	1 μg/cm^2 or more		
		- Cd	0.5 μg/cm^2 or more		
		- Sb	1 μg/cm^2 or more		
		- other than heat cooling ware			
		- Pb	8 μg/cm^2 or more		
		- Cd	0.7 μg/cm^2 or more		
		- Sb	1 μg/cm^2 or more		
		8. Starch			
		a. Migrant Specification			
		1) Arsenic(As_2O_3)	0.1 mg/L or more		
		2) Pb	0.1 mg/L or more		
		3) Consumption of potassium permanganate (However, non-water resistance container is eexcluded)	1.0 mg/L or more		
		4) Formaldehyde	1 mg/L or more		
		5) Fluorescence whitenung agent	-		
		Commom Standards and Specifications			
		1. Common Manufacturing Standards			
		a. Raw material standards 8) Tin plating used in food contact surface of utensils, containers and packages			
		Pb	0.1 % or more		
		7) Metals for manufacture or repair in food contact surface of utensils, containers and packages			
		Pb	0.1 % or more		
		Sb	5 % or more		
		9) Solder for manufacture or			

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02. Chemical Test

02.008 Other Material and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		repair of utensils, containers and packages			
		Pb	0.1 % or more		
		b. manufacturing processing standards 1) ommom Standards and Specifications			
		Food contact surface shall not be printed in the manufacture of utensils, containers and packages. Printing inks applied to the non food-contact side must be sufficiently dried and in this case the benzophenone as ink compounds	0.6 mg/L or more		
		K. In case of flexible packages, among synthetic polymer packages with printing non food-contact side, residual toluene	2 mg/m^2 or more		
		Utensils, containers and packages of synthetic resin products, cellophane products, rubber products, paper products, and starch products			
		As sum lead, cadmium, mercury and hexavalent chromium	100 mg/kg or more		
KATS Notice No.2018-195(06.29.2018.)	wallpaper and paperboard	Safety Certification Annex 23 Wall paper, wall covering and flooring		BS-1	N
		4.1.2 Emission of formaldehyde	0.1 mg/L or more		
		4.1.3 Resistance sulfuration	(1 ~ 5) grade		
		4.1.5 Phthalate plasticizers	each 0.01 % or more		
ME Notice No.2015-130(07.31.2015.)	packaging material	Recommended standards and test methods for heavy metal content in packaging		BS-1	N

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02. Chemical Test

02.008 Other Material and Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		- Pb	10 mg/kg or more		
		- Cd	10 mg/kg or more		
		- Hg	1 mg/kg or more		
		- Hexavalent chromium	1 mg/kg or more		
KS I ISO 7827:1994	Water Quality	Water quality-Evaluation in an aqueous medium of the "ultimate" aerobic biodegradability of organic compounds-Method by analysis of dissolved organic carbon(DOC)	(0 ~ 99.9) %	BS-1	N
KS M 1991:2016	polymer	Determination of phthalate plasticizers in polymer materials	each 50 mg/kg or more	BS-1	N
KS M 7305:2022	wallpaper	Wall paper and wall covering for decorative finish		BS-1	N
		5.3.6 Emission of formaldehyde	0.2 mg/L or more		

02. Chemical Test

02.016 Other Petrochemical Products

Test method	Products and materials	Standard designation	Test range	Site	Field testing
BS EN 1122:2001	plastic	Plastics - Determination of cadmium - Wet decomposition method	(10 ~ 3 000) mg/kg	BS-1	N
KS M 0009:2020	chemicals	Test methods for loss and dross of chemical products	loss : (1 ~ 100) % dross : (1 ~ 100) %	BS-1	N
KS M 1997:2010	polycarbonate food container	Measurement of Bisphenol A for polycarbonate food container	2 mg/kg or more	BS-1	N
KS M ISO 3856-5:1984	varnish	Determination of Soluble Metal content in paint Part 5. Measurement of Hexavalent Chromium in paint of pigment or powder coating - Diphenyl carbazide	(0.05 ~ 5) %	BS-1	N

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02. Chemical Test

02.021 Water Quality

Test method	Products and materials	Standard designation	Test range	Site	Field testing
ISO 11885:2007	Water Quality	Water quality -- Determination of selected elements by inductively coupled plasma optical emission spectrometry (ICP-OES)	0.04 mg/L or more (Exception of Bi. Ga, In, S, W, Zr)	BS-1	N
NIER Notice No.2023-072(12.14.2023.)	Water Quality	ES 04302.1b n-Hexane Extractable Material	0.5 mg/L or more	BS-1	N
		ES 04303.1b Suspended Solids	0.5 mg/L or more		
		ES 04304.1c Color	1° or more		
		ES 04305.1c Biochemical Oxygen Demand (BOD)	0.5 mg/L or more		
		ES 04306.1c Potential of Hydrogen(pH)	pH 1 ~ pH 14		
		ES 04307.1b Temperature	(10 ~ 40) ℃		
		ES 04308.2c Dissolved Oxygen -Electrode Method	0.5 mg/L or more		
		ES 04310.1d Conductivity	0.06 μS/cm or more		
		ES 04311.1c Total Organic Carbon -High Temperature Combustion Method	0.3 mg/L or more		
		ES 04315.1b Chemical Oxygen Demand (CODMn)-Titrimetric Method -Acidic Permanganate	0.5 mg/L or more		
		ES 04315.2b Chemical Oxygen Demand (CODMn)-Titrimetric Method --Alkaline Permanganate	-		
		ES 04315.3c Chemical Oxygen Demand (CODCr)-Titrimetric Method-Dicromate	0.5 mg/L or more		
		ES 04351.4 Fluoride -Continuous Flow Analysis(CFA)	0.5 mg/L or more		
		ES 04353.3c Cyanide	0.1 mg/L or more 0.01 mg/L or		

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02. Chemical Test

02.021 Water Quality

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		-Continuous Flow Analysis (CFA)	more		
		ES 04350.1b Anions-Ion Chromatography	0.03 mg/L or more		
		Bromide			
		Nitrite-N	0.1 mg/L or more		
		chloride	0.1 mg/L or more		
		Nitrogen Nitrate	0.1 mg/L or more		
		Sulfate	0.5 mg/L or more		
		ES 04355.1c Ammonium Nitrogen	0.01 mg/L or more		
		-UV/Visible Spectrometry			
		ES 04359.2b Anionic Surfactants	0.09 mg/L or more		
		-Continuous Flow Analysis			
		ES 04360.2c Phosphorus-P			
		-UV/Visible Spectrometry	0.003 mg/L or more		
		-Ascorbic Acid Method			
		ES 04362.0 Total Phosphorus			
		ES 04362.1c Total Phosphorus	0.005 mg/L or more		
		-UV/Visible Spectrometry			
		ES 04362.2b Total Phosphorus	0.003 mg/L or more		
		-Continuous Flow Analysis(CFA)			
		ES 04363.0 Total Nitrogen			
		ES 04363.1a Total Nitrogen	0.1 mg/L or more		
		-UV/Visible Spectrometry			
		-Oxidation Method			
		ES 04363.4c Total Nitrogen	0.06 mg/L or more		
		-Continuous Flow Analysis			
		ES 04364.2b Perchlorate	0.002 mg/L or more		
		-Ion Chromatography			
		ES 04365.2c Phenols	0.005 mg/L or more		
		-Continuous Flow Analysis			
		ES 04400.3c Metals			
		-Inductively Coupled Plasma			
		-Atomic Emission Spectrometry			

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02. Chemical Test

02.021 Water Quality

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Copper(Cu)	0.006 mg/L or more		
		Lead(Pb)	0.010 mg/L or more		
		Nickel(Ni)	0.015 mg/L or more		
		Manganese(Mn)	0.002 mg/L or more		
		Barium(Ba)	0.003 mg/L or more		
		Arsenic(As)	0.010 mg/L or more		
		Zinc(Zn)	0.002 mg/L or more		
		Antimony(Sb)	0.020 mg/L or more		
		Tin(Sn)	0.020 mg/L or more		
		Iron(Fe)	0.007 mg/L or more		
		Cadmium(Cd)	0.004 mg/L or more		
		Chromium(Cr)	0.007 mg/L or more		
		ES 04408.1c Mercury -Cold Vapor-Atomic Absorption Spectrometry	0.000 5 mg/L or more		
		ES 04415.2c Hexavalent Chromium -UV/Visible Spectrometry	0.040 mg/L or more		
		ES 04501.1b Di-(2-Ethylhexyl)Phthalate -Liquid Extraction -Gas Chromatography-Mass Spectrometry	0.002 5 mg/L or more		
		ES 04503.1c Organophosphorus Pesticides -Liquid Extraction -Gas Chromatography	0.000 5 mg/L or more		

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02. Chemical Test

02.021 Water Quality

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		ES 04504.1b Polychlorinated Biphenyls -Liquid Extraction -Gas Chromatography	0.000 5 mg/L or more		
		ES 04505.1 Di(2-ethylhexyl)adipate -Liquid Extraction -Gas Chromatography-Mass Spectrometry	0.002 5 mg/L or more		
		ES 04506.1 Perfluorinated Alkyl Substances (PFAS)-Liquid Chromatography -Tandem Mass Spectrometry(LC-MS/MS)	0.005 μg/L or more		
		ES 04601.2 1,4-Dioxane -Headspace -Gas chromatography/Mass Spectrometry	0.001 mg/L or more		
		ES 04602.1b Bromoform, Vinyl Chloride, Acrylonitrile -Headspace -Gas Chromatography/Mass Spectrometry	0.005 mg/L or more		
		ES 04603.2b Volatile Organic Compounds -Headspace -Gas Chromatography/Mass Spectrometry			
		Dichloromethane	0.005 mg/L or more		
		Benzene	0.005 mg/L or more		
		Toluene	0.005 mg/L or more		
		Ethylbenzene	0.005 mg/L or more		
		o-xylene	0.005 mg/L or more		
		m-xylene	0.005 mg/L or		

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02. Chemical Test

02.021 Water Quality

Test method	Products and materials	Standard designation	Test range	Site	Field testing
			more		
		p-xylene	0.005 mg/L or more		
		Chloroform	0.005 mg/L or more		
		1,1,1-Trichloroethane	0.005 mg/L or more		
		1,2-Dichloroethane	0.005 mg/L or more		
		Trichloroethylene	0.005 mg/L or more		
		Tetrachloroethylene	0.005 mg/L or more		
		1,1-Dichloroethylene	0.005 mg/L or more		
		Carbon tetrachloride	0.002 mg/L or more		
		ES 04605.0 Formaldehyde ES 04605.1a Formaldehyde -High Performance Liquid chromatography	0.020 mg/L or more		
		ES 04605.3 Formaldehyde -Headspace -Gas Chromatography/Mass Spectrometry	0.010 mg/L or more		
		ES 04607.1 Naphthalene -Headspace -Gas Chromatography/Mass Spectrometry	0.003 mg/L or more		
		ES 04608.1 Epichlorohydrin -Liquid Extraction -Gas Chromatography/Mass Spectrometry	0.003 mg/L or more		
		ES 04609.2 Acrylamide -Liquid Chromatography /Tandem Mass Spectrometry	0.006 mg/L or more		
		ES 04610.1 Styrene	0.006 mg/L or		

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02. Chemical Test

02.021 Water Quality

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		-Headspace -Gas Chromatography/Mass Spectrometry ES 04611.1 Phenol -Liquid Extraction -Gas Chromatography/Mass Spectrometry ES 04612.1 Pentachlorophenol -Liquid Extraction -Gas Chromatography/Mass Spectrometry	more 0.005 mg/L or more 0.001 mg/L or more		
ISO 7887B:2011	Water Quality	Water quality -Examination and determination of colour	0.1 m^{-1} or more	BS-1	N
EPA 377.1:1978	Water Quality	Sulfite (Titrimetric)	3 mg/L or more	BS-1	N
APHA 4500-S^{2-} D. Methylene Blue Method:1995	Water Quality	Sulfide by Methylene Blue	0.1 mg/L or more	BS-1	N

02. Chemical Test

02.023 Air Quality

Test method	Products and materials	Standard designation	Test range	Site	Field testing
NIER Notice No.2023-001(01.05.2023.)	Air Quality	Standard method of Indoor air quality ES 02131.1f Determination of emission of volatile organic compounds and formaldehyde from building materials by small-scale emission test chamber method	0.001 $mg/m^2 \cdot h$ or more	BS-1	N
NIER Notice No.2023-16(04.04.2023.)	Air Quality	Standard method of Atmosphere pollution	0.1 mg/Sm^3 or more	FS-1	N

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02. Chemical Test

02.023 Air Quality

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		ES 01301.1d Particulate Matter in Flue Gas - Semi-Automatic Method			
		ES 01302.1c Particulate Matter from Production Facilities - High Volume Sampler	0.1 mg/Sm^3 or more		
		ES 01303.1d Ammonia in Flue Gas - UV/VIS Spectrometry - Indophenol Method	1.2 μmol/mol or more		
		ES 01304.2c Carbon Monoxide in Flue Gas - CO - Automated Measuring Method - Electrochemistry	5 μmol/mol or more		
		ES 01305.1e Hydrogen Chloride in Flue Gas - Ion Chromatography	0.4 μmol/mol or more		
		ES 01307.1b Sulfur Oxidant in Flue Gas - SO2 - Automated Measuring Method	5 μmol/mol or more		
		ES 01308.1b Nitrogen Oxidant in Flue Gas - NOx-Automated Measuring Method	5 μmol/mol or more		
		ES 01309.2c Carbon Disulfide in Flue Gas - UV/VIS Spectrometry	4 μmol/mol or more		
		ES 01310.1d Hydrogen Sulfide in Flue Gas - UV/VIS Spectrometry - Methylene Blue Method	1.7 μmol/mol or more		
		ES 01311.1e Fluoride Compounds in Flue	0.05 μmol/mol or more		

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02. Chemical Test

02.023 Air Quality

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Gas - UV/VIS Spectrometry			
		ES01312.1d Hydrogen Cyanide in Flue Gas - UV/VIS Spectrometry - 4 - Pyridinecarboxylic acid - Pyrazolone	0.05 μmol/mol or more		
		ES 01313.1b Smoke in Flue Gas	(0 ~ 5) ℃		
		ES 01317.1b Fine Particulate Matter in Flue Gas (PM-10 and PM-2.5)	0.1 mg or more		
		ES 01319.2c Methods for Determination of Hydrazine in Fuel Gas - HCl Absorbing Solution Sampling - HPLC Method	0.45 μmol/mol or more		
		ES01401.3d Arsenic Compounds in Flue Gas - Inductively Coupled Plasma/Atomic Emission Spectrometry	0.03 μmol/mol or more		
		ES 01402.2d Cadmium Compounds in Flue Gas - Inductively Coupled Plasma/Atomic Emission Spectrometry	0.005 mg/Sm^3 or more		
		ES 01403.2d Lead Compounds in Flue Gas - Inductively Coupled Plasma/Atomic Emission Spectrometry	0.025 mg/Sm^3 or more		
		ES 01404.2d Chromium Compounds in Flue Gas - Inductively Coupled Plasma/Atomic Emission Spectrometry	0.05 mg/Sm^3 or more		
		ES 01405.2d	0.05 mg/Sm^3 or		

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02. Chemical Test

02.023 Air Quality

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Copper Compounds in Flue Gas - Inductively Coupled Plasma/Atomic Emission Spectrometry	more		
		ES 01406.2d Nickel Compounds in Flue Gas - Inductively Coupled Plasma/Atomic Emission Spectrometry	0.01 mg/Sm^3 or more		
		ES 01407.2d Zinc Compounds in Flue Gas - Inductively Coupled Plasma/Atomic Emission Spectrometry	0.1 mg/Sm^3 or more		
		ES01408.1c Mercury Compounds in Flue Gas - Cold Vapor Atomic Absorption Spectrometry	0.000 5 mg/Sm^3 or more		
		ES 01501.1c Formaldehyde and aldehydes in Flue Gas - High Performance Liquid Chromatography	Formaldehyde 0.010 μmol/mol or more		
			Acetaldehydein 0.010 μmol/mol or more		
			Acroleinin 0.010 μmol/mol or more		
		ES 01502.2b Bromide Compounds in Flue Gas - Titration	1.2 μmol/mol or more		
		ES 01503.1c Phenols in Flue Gas - Gas Chromatography	Phenol 0.2 μmol/mol or more		
			o-Cresol 0.2 μmol/mol or more		
			m-Cresol 0.2 μmol/mol or more		

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02. Chemical Test

02.023 Air Quality

Test method	Products and materials	Standard designation	Test range	Site	Field testing
			p-Cresol 0.2 μmol/mol or more		
			2-Chlorophenol 0.2 μmol/mol or more		
			3-Chlorophenol 0.2 μmol/mol or more		
			4-Chlorophenol 0.2 μmol/mol or more		
			2,4-Dichlorophenol 0.2 μmol/mol or more		
			2,4,6-Trichlorophenol 0.2 μmol/mol or more		
			Pentachlorophenol 0.2 μmol/mol or more		
		ES 01506.1d Benzene in Flue gas - Gas Chromatograpy	0.1 μmol/mol or more		
		ES 01507.1d Total Hydro Carbon in Flue Gas - Flame Ionization Detector	5 μmol/mol or more		
		ES 01509.1d Carbon Tetrachloride, Chloroform ,Vinyl Chloride in Flue Gas - Gas Chromatography	CarbonTetrachloride: 0.1 μmol/mol or more		
			Chloroform: 0.1 μmol/mol or more		
			Vinyl Chloride: 0.1 μmol/mol or more		
		ES 01512.1d	0.03 μmol/mol or more		

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02. Chemical Test

02.023 Air Quality

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		1,3-butadiene in Flue Gas - Gas Chromatography			
		ES 01513.1d Dichloromethane in Flue gas - Gas Chromatograpy	0.5 μmol/mol or more		
		ES 01514.1d Trichloroethylene in Flue gas - Gas Chromatograpy	0.3 μmol/mol or more		
		ES 01505.1b PAHs in Flue Gas - Gas Chromatography	(10 ~ 50) ng/Sm^3		
		ES 01511.1d Volatile Organic Compounds in Flue Gas - Gas Chromatography	Acrylonitrile: 0.1 μmol/mol or more		
			1,2-Dichloroethane 0.1 μmol/mol or more		
			tetrachloroethylene 0.1 μmol/mol or more		
			Ethyl Benzene 0.1 μmol/mol or more		
			Styrene 0.1 μmol/mol or more		
			Aniline 0.1 μmol/mol or more		
BS EN ISO 16000-9:2006	Air Quality	Indoor, Determination of the emission of volatile organic compounds from building products and furnishing. Emission test chamber method	0.001 mg/m^2·h and more	BS-1	N
BS EN ISO 16000-11:2006	Air Quality	Indoor, Determination of the emission of volatile organic compounds from building products and furnishing. Sampling, storage of samples and preparation of test	-	BS-1	N

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02. Chemical Test

02.023 Air Quality

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		specimens			
ISO 12460-4:2016	Air Quality	Wood-based panels -- Determination of formaldehyde release -- Part 4: Desiccator method	0.1 mg/L and more	BS-1	N
ISO 16000-3:2022	Air Quality	Indoor air — Part 3: Determination of formaldehyde and other carbonyl compounds in indoor and test chamber air — Active sampling method	1 μg/m^3 and more	BS-1	N
KS I ISO 12219-3:2012	Air Quality	Interior air of road vehicles - Part 3; Screening method for the determination of the emissions of volatile organic compounds from vehicle interior parts and materials - Micro-scale chamber method.	0.005 mg/m^2·h or more	BS-1	N
KS I ISO 16000-3:2011	Air Quality	Indoor air－Part 3：Determination of formaldehyde and other carbonyl compounds in indoor air and test chamber air--Active sampling method	1 μg/m^3 or more	BS-1	N
KS I ISO 16000-6:2011	Air Quality	Indoor air－Part 6：Determination of volatile organic compounds in indoor and test chamber air by active sampling on Tenax TA® sorbent, thermal desorption and gas chromatography using MS or MS-FID	1 μg/m^3 or more	BS-1	N
KS I ISO 16000-9:2006	Air Quality	Indoor air－Part 9：Determination of the emission of volatile organic compounds from building products and furnishing--Emission test chamber method	0.001 mg/m^2·h	BS-1	N
NIER Notice No.2023-16(04.04.2023.)	Air Quality	ES 01409.2 Beryllium Compounds in Flue Cas －	0.025 mg/Sm^3 or more	SF-1	N

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02. Chemical Test

02.023 Air Quality

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Inductively Coupled Plasma/Atomic Emission Spectrometry			
		ES 01515.2c Methods for Determination of Ethylene Oxide in Fuel Gas - Solvent Extraction - Gas Chromatography	0.3 μmol/mol or more		
		ES 01516.1a N,N-Dimethylformamide in Flue Gas - Thermal Desorption - Gas Chromatography	0.1 μmol/mol or more		
		ES 01518.2a Benzidine in Flue Gas - Glass Fiber Filters - Liquid Chromatography	0.03 μmol/mol or more		
		ES 01519.b Vinyl Acetate in Flue Gas - Thermal Desorption - Gas Chromatography	0.1 μmol/mol or more		
		ES 01521.a Dimethyldisulfide in Flue Gas - Cold Trap - Capillary Column - Gas Chromatography	0.1 nmol/mol or more		
		ES 01522.2a Propylene Oxide in Fuel Gas - Solvent Extraction - Gas Chromatography	4 μmol/mol or more		

02. Chemical Test

02.025 Indoor and Other Environment

Test method	Products and materials	Standard designation	Test range	Site	Field testing

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02. Chemical Test

02.025 Indoor and Other Environment

Test method	Products and materials	Standard designation	Test range	Site	Field testing
KATS Notice No.2009-981(12.30.2009.)	Indoor and Other Environment	Asbestos safety standards of Industrial products	1 % or more	BS-1	N
NIER Notice No.2019-017(05.31.2019.)	Indoor and Other Environment	Standard method of odor compounds		SF-1	N
		ES 09301.b Air dilution olfactory method	3 times or more		
		ES 09302.1a Ammonia - boric acid solution absorption - absorptiometric analysis method	0.03 μmol/mol or more		
		ES 09303.1a Sulfur compound - cold trap - packed GC method	each 0.6 nmol/mol or more		
		ES 09304.1a Trimethylamine - head space - capillary GC method	1.5 μmol/mol or more		
		ES 09305.1a Aldehyde - DNPH - HPLC method	each 3 nmol/mol or more		
		ES 09306.1a Styrene - cold trap - GC method	3 nmol/mol or more		
		ES 09307.a VOCs - cold trap/thermal desorption - GC method	each 30 nmol/mol or more		
		ES 09308.1a Volatile fatty acid - head space - GC method	each 30 nmol/mol or more		
ME Notice No.2020-219(10.27.2020.)	Indoor and Other Environment	Standard method of Solid Fuel Product		BS-1	N
		Part 1. Introduction	-		
		Part 2. QA/QC	-		
		Part 3. Sampling	-		
		Part 4. Bulk Density	10 kg/m^3 or more		
		Part 5. Determination of Particle Size Distribution	-		
		Part 6. Material Appearance	-		
		Part 7. Calorific Value	(0 ~ 10 000) kcal/kg		
		Part 8. Total Moisture	0.1 % or more		
		Part 9. Ash Content	0.1 % or more		
		Part 10. Determination of	0.1 % or more		

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02. Chemical Test

02.025 Indoor and Other Environment

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Volatile Matter			
		Part 11. Fusibility of Ash	(900 ~ 1 500) °C		
		Part 12. Determination for Carbon, Hydrogen, Nitrogen	C : 0.1 % or more H : 0.1 % or more N : 0.1 % or more		
		Part 13. Chlorine and Sulfur	S : 0.01 % or more Cl : 0.01 % or more		
		Part 14. metals Pb Cd Cr As Sb Co Cu Mn Ni Tl V Hg	1.5 mg/kg or more 0.10 mg/kg or more 1.0 mg/kg or more 0.10 mg/kg or more 1.5 mg/kg or more 1.0 mg/kg or more 1.0 mg/kg or more 0.4 mg/kg or more 1.2 mg/kg or more 0.8 mg/kg or more 1.0 mg/kg or more 0.01 mg/kg or more		
		Part 15. Biomass Content	1 % or more		
ASTM E1613-12	Indoor and Other Environment	Standard Test Method for Determination of Lead by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES), Flame Atomic Absorption Spectrometry (FAAS), or Graphite Furnace Atomic Absorption Spectrometry (GFAAS) Techniques	10 mg/kg and more	BS-1	N
ASTM E1645-21	Indoor and Other Environment	Standard Practice for Preparation of Dried Paint Samples by Hotplate or Microwave Digestion for Subsequent Lead	10 mg/kg and more	BS-1	N

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02. Chemical Test

02.025 Indoor and Other Environment

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Analysis			
ISO 17070:2015	Indoor and Other Environment	Leather - Chemical tests - Determination of tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and pentachlorophenol content	0.1 mg/kg and more	BS-1	N
EPA 3050B:1996	Indoor and Other Environment	Acid Digestion of Sediments, Sludges, and Soils	-	BS-1	N
EPA 3060A:1996	Indoor and Other Environment	Alkaline Digestion for Hexavalent Chromium	-	BS-1	N
IEC 62321-3-2:2020	Indoor and Other Environment	Determination of certain substances in electrotechnical products – Part-3-2: Screening – Fluorine, bromine and chlorine in polymers and electronics by combustion - ion chromatography	10 mg/kg and more	BS-1	N
IEC 62321-4:2013+AMD1:2017	Indoor and Other Environment	Determination of certain substances in electrotechnical products - Part 4: Mercury in polymers, metals and electronics by CV-AAS, CV-AFS, ICP-OES and ICP-MS	0.1 mg/kg and more	BS-1	N
IEC 62321-5:2013	Indoor and Other Environment	Determination of certain substances in electrotechnical products - Part 5: Cadmium, lead and chromium in polymers and electronics and cadmium and lead in metals by AAS, AFS, ICP-OES and ICP-MS	Cd : 1 mg/kg and more Pb : 10 mg/kg and more Cr : 5 mg/kg and more	BS-1	N
IEC 62321-6:2015	Indoor and Other Environment	Determination of certain substances in electrotechnical products - Part 6: Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography -mass spectrometry (GC-MS)	PBBs & PBDEs : Each 5 mg/kg and more	BS-1	N
IEC 62321-7-1:2015	Indoor and Other Environment	Determination of certain substances in electrotechnical	negative: 0.10 g/cm^2 LOQ	BS-1	N

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02. Chemical Test

02.025 Indoor and Other Environment

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		products - Part 7-1: Hexavalent chromium - Presence of hexavalent chromium (Cr(VI)) in colourless and coloured corrosion-protected coatings on metals by the colorimetric method	grey zone: (0.10~0.13) g/cm^2 inconclusive: above 0.13 g/cm^2		
IEC 62321-8:2017	Indoor and Other Environment	Determination of certain substances in electrotechnical products - Part 8: Phthalates in polymers by gas chromatography-mass spectrometry (GC-MS), gas chromatography -mass spectrometry using a pyrolyzer /thermal desorption accessory (Py-TD-GC-MS)	each 50 mg/kg and more	BS-1	N
KS C IEC 62321-3-2:2020	Indoor and Other Environment	Determination of certain substances in electrotechnical products – Part-3-2: Screening – Fluorine, chlorine and bromine in polymers and electronics by combustion – ion chromatography(C-IC)	10 mg/kg or more	BS-1	N
KS C IEC 62321-4:2014	Indoor and Other Environment	Determination of certain substances in electrotechnical products - Part 4: Mercury in polymers, metals and electronics by CV-AAS, CV-AFS, ICP-OES and ICP-MS	0.1 mg/kg or more	BS-1	N
KS C IEC 62321-5 Ed.1.0:2014	Indoor and Other Environment	Determination of certain substances in electrotechnical products - Part 5: Cadmium, lead and chromium in polymers and electronics and cadmium and lead in metals by AAS, AFS, ICP-OES and ICP-MS	Cd : 1 mg/kg or more Pb : 10 mg/kg or more Cr : 5 mg/kg or more	BS-1	N
KS E 3707:2016	Indoor and Other Environment	Determination of calorific value of coal and coke	(0 ~ 41 840) kcal/kg	BS-1	N
KS F 2611:2019	Indoor and Other Environment	Hygrothermal performance of building materials and products－Determination of	0.01 kg/m^2 or more	BS-1	N

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02. Chemical Test

02.025 Indoor and Other Environment

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		moisture adsorption/desorption properties in response to humidity variation			
KS I 3546:2022	Indoor and Other Environment	Performance test methods for evaluating the reduction of volatile organic compound and aldehyde by building material − Solid phase building material	0.001 mg/(m^2 · h) or more	BS-1	N
KS I 3547:2022	Indoor and Other Environment	Performance test methods for evaluating the reduction of volatile organic compound and aldehyde by building material −Liquid phase building material	0.001 mg/(m^2 · h) or more	BS-1	N
KS L 5300:2009	Indoor and Other Environment	Determination of asbestos in bulk material	1 % or more	BS-1	N
KS M 1998:2022	Indoor and Other Environment	Determination of the emission rate of formaldehyde and volatile organic compounds in building interior products 7. Test method-Small chamber 10. Test method-Desicator	0.001 mg/(m^2 · h) or more 0.1 mg/L or more	BS-1	N

02. Chemical Test

02.026 Textiles

Test method	Products and materials	Standard designation	Test range	Site	Field testing
AATCC 112-2020	Textiles	Formaldehyde Release from Fabric, Determination of: Sealed Jar Method	16 μg/g or more	BS-1	N
ASTM E1645-20a	Textiles	Standard Practice for Preparation of Dried Paint Samples by Hotplate or Microwave Digestion for Subsequent Lead Analysis	10 mg/kg or more	BS-1	N
BS EN 14362-3:2017	Textiles	Textiles - Methods for determination of certain	5 mg/kg or more	BS-1	N

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02. Chemical Test

02.026 Textiles

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		aromatic amines derived from azo colorants - Part 3: Detection of the use of certain azo colorants, which may release 4-aminoazobenzene			
DIN 54231:2005	Textiles	Textiles - Detection of disperse dyestuffs	1 mg/L or more	BS-1	N
DIN EN 1811:2015	Textiles	Reference test method for release of nickel from all post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin; German version EN 1811:2011+A1:2015	0.1 μg/cm^2/week or more	BS-1	N
BS EN ISO 14362-1:2017	Textiles	Textiles - Methods for determination of certain aromatic amines derived from azo colorants - Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres	each 5 mg/kg or more	BS-1	N
BS EN 71-3:2019+A1:2021 (1)	Textiles	Safety of toys - Part 3: Migration of certain elements		BS-1	N
		Category 1			
		- Aluminium	10 mg/kg or more		
		- Antimony	10 mg/kg or more		
		- Arsenic	0.1 mg/kg or more		
		- Barium	10 mg/kg or more		
		- Cadmium	0.1 mg/kg or more		
		- Chromium(Ⅲ)	2 mg/kg or more		
		- Chromium(Ⅵ)	0.001 mg/kg or more		
		- Lead	1 mg/kg or more		

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02. Chemical Test

02.026 Textiles

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		- Mercury	0.1 mg/kg or more		
		- Selenium	10 mg/kg or more		
		- Boron	10 mg/kg or more		
		- Cobalt	1 mg/kg or more		
		- Copper	10 mg/kg or more		
BS EN 71-3:2019+A1:2021(2)	Textiles	- Manganese	10 mg/kg or more	BS-1	N
		- Nickel	10 mg/kg or more		
		- Strontium	10 mg/kg or more		
		- Tin	10 mg/kg or more		
		- Organic tin	0.1 mg/kg or more		
		- Zinc	10 mg/kg or more		
		Category 2			
		- Aluminium	10 mg/kg or more		
		- Antimony	1 mg/kg or more		
		- Arsenic	0.1 mg/kg or more		
		- Barium	10 mg/kg or more		
		- Cadmium	0.1 mg/kg or more		
		- Chromium(Ⅲ)	2 mg/kg or more		
		- Chromium(Ⅵ)	0.001 mg/kg or more		
		- Lead	1 mg/kg or more		
		- Mercury	0.1 mg/kg or more		

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02. Chemical Test

02.026 Textiles

Test method	Products and materials	Standard designation	Test range	Site	Field testing
BS EN 71-3:2019+A1:2021(3)	Textiles	- Selenium - Boron - Cobalt - Copper - Manganese - Nickel - Strontium - Tin - Organic tin - Zinc Category 3 - Aluminium - Antimony - Arsenic - Barium	1 mg/kg or more 10 mg/kg or more 1 mg/kg or more 10 mg/kg or more 10 mg/kg or more 5 mg/kg or more 10 mg/kg or more 10 mg/kg or more 0.1 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or more	BS-1	N
BS EN 71-3:2019+A1:2021(4)	Textiles	- Cadmium - Chromium(Ⅲ) - Chromium(Ⅵ) - Lead - Mercury - Selenium	5 mg/kg or more 2 mg/kg or more 0.001 mg/kg or more 10 mg/kg or more 10 mg/kg or more 10 mg/kg or	BS-1	N

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02. Chemical Test

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		- Boron	more 10 mg/kg or more		
		- Cobalt	10 mg/kg or more		
		- Copper	10 mg/kg or more		
		- Manganese	10 mg/kg or more		
		- Nickel	10 mg/kg or more		
		- Strontium	10 mg/kg or more		
		- Tin	10 mg/kg or more		
		- Organic tin	0.1 mg/kg or more		
		- Zinc	10 mg/kg or more		
ISO 14184-1:2011	Textiles	Textiles -- Determination of formaldehyde -- Part 1: Free and hydrolysed formaldehyde (water extraction method)	16 mg/kg or more	BS-1	N
ISO 14184-2:2011	Textiles	Textiles -- Determination of formaldehyde -- Part 2: Released formaldehyde (vapour absorption method)	16 mg/kg or more	BS-1	N
ISO 8124-3:2020	Textiles	Safety of toys -- Part 3: Migration of certain elements	each 10 mg/kg or more	BS-1	N
JIS L 1041:2011	Textiles	Test methods for resin finished textiles	5 mg/kg or more	BS-1	N
KS K 0147:2015	Textiles	Test method for determination of aryl amine level on the dyestuff and dyed products	each 5 mg/kg or more	BS-1	N
KS K 0147:2021	Textiles	Textiles — Methods for determination of certain aromatic amines derived from azo colorants — Part 1: Detection	each 5 mg/kg or more	BS-1	N

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02. Chemical Test

02.026 Textiles

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		of the use of certain azo colorants accessible with and without extracting the fibres			
KS K 0149:2018	Textiles	Testing method for BHT (Butylated Hydroxy Toluene) in textile	10 mg/kg or more	BS-1	N
KS K 0731:2017	Textiles	Test method for the determination of extractable heavy metals in textiles	each 10 mg/kg or more	BS-1	N
KS K 0732:2017	Textiles	Test method for the determination of pesticides in textiles	10 mg/kg or more	BS-1	N
KS K 0733:2017	Textiles	Test method for determination of the pentachlorophenol content in textiles and/or leathers		BS-1	N
		1. Pentachlorophenol	0.1 mg/kg or more		
		2. Trichlorophenol	0.1 mg/kg or more		
		3. Tetrachlorophenol	0.1 mg/kg or more		
KS K 0734:2019	Textiles	Test method for the determination of arylamines in polyester textiles	each 5 mg/kg or more	BS-1	N
KS K 0735:2017	Textiles	Test method for the determination of carcinogenic dyes content in textiles	each 20 mg/kg or more	BS-1	N
KS K 0736:2019	Textiles	Test method for the determination of allergenous dyes in textiles	each 20 mg/kg or more	BS-1	N
		1. Disperse Blue 1			
		2. Disperse Blue 3			
		3. Disperse Blue 7			
		4. Disperse Blue 26			
		5. Disperse Blue 35			
		6. Disperse Blue 102			
		7. Disperse Blue 106			
		8. Disperse Blue 124			
		9. Disperse Brown 1			
		10. Disperse Orange 1			

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02. Chemical Test

02.026 Textiles

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		11. Disperse Orange 3 12. Disperse Orange 37/76/59 13. Disperse Orange 149 14. Disperse Red 1 15. Disperse Red 11 16. Disperse Red 17 17. Disperse Yellow 1 18. Disperse Yellow 3 19. Disperse Yellow 9 20. Disperse Yellow 23 21. Disperse Yellow 39 22. Disperse Yellow 49			
KS K 0737:2019	Textiles	Test method for the determination of selected organotin compounds in textiles	each 0.1 mg/kg or more	BS-1	N
KS K 0739:2017	Textiles	Textile - Methods for determination of certain aromatic amines derived from azo colorants - Part 3: Detection of the use of certain azo colorants, which may release 4-aminoazobenzene	5 mg/kg or more	BS-1	N
KS K 0852:2021	Textiles	Determination of metals in textiles	each 0.1 % or less	BS-1	N
KS K 0853:2017	Textiles	Test method for determination of nickel release from products intended to come into direct and prolonged contact with the skin: Alternate Exposure	0.1 μg/cm^2/week or more	BS-1	N
KS K ISO 3071:2005	Textiles	Textile-Determination of pH of aqueous extract	pH 1 ~ pH 14	BS-1	N
KS K ISO 14184-1:1998	Textiles	Textiles-Determination of formaldehyde-Part 1 : Free and hydolized formaldehyde (water extraction method)	16 mg/kg or more	BS-1	N
KS K ISO 14184-2:2011	Textiles	Textiles-Determination of formaldehyde-Part 2 : Released formaldehyde (vapour absorption method)	16 mg/kg or more	BS-1	N

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02. Chemical Test

02.027 Leather

Test method	Products and materials	Standard designation	Test range	Site	Field testing
ISO 17070:2015	Leather	Leather -- Chemical tests -- Determination of tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and pentachlorophenol content	0.1 mg/kg or more	BS-1	N
ISO 17075-1:2017	Leather	Leather -- Chemical determination of chromium(VI) content in leather - Part 1 : Colorimetric method	3 mg/kg or more	BS-1	N
ISO 17234-1:2020	Leather	Leather-Chemical tests for the determination of certain azo colourants in dyed leathers - Part 1: Determination of certain aromatic amines derived from azo colorants	10 mg/kg or more	BS-1	N
ISO 17234-2:2011	Leather	Leather -- Chemical tests for the determination of certain azo colourants in dyed leathers -- Part 2: Determination of 4-aminoazobenzene	10 mg/kg or more	BS-1	N
KS M 6882:2020	Leather	Test Method of leather 7.9 Chrome Content	0.01 % or more	BS-1	N
KS M ISO 17075:2007	Leather	Leather－Chemical Test－Test Method of Cr^{6+} Content	3 mg/kg or more	BS-1	N
KS M ISO 17226-1:2018	Leather	Leather - Chemical determination of formaldehyde content - Part 1: Method using high performance liquid chromatography	5 mg/kg or more	BS-1	N
KS M ISO 17226-2:2018	Leather	Leather - Chemical determination of formaldehyde content - Part 2: Method using colorimetric analysis	10 mg/kg or more	BS-1	N
KS M ISO 17226-3:2011	Leather	Leather - Chemical determination of formaldehyde content - Part 3: Determination of formaldehyde emissions from leather	5 mg/kg or more	BS-1	N

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02. Chemical Test

02.033 Household Goods

Test method	Products and materials	Standard designation	Test range	Site	Field testing
KATS Notice No.2009-977(12.30.2009.)	Household Goods	Safety Certification Standards Annex 3 High pressure rice making pot and pressure cooker		BS-1	N
		6.5 Material			
		6.5.1 Preparation of synthetic resin migration test solution	-		
		6.5.1.1 Phenol	-		
		6.5.1.2 Formaldehyde	-		
		6.5.1.3 Heavy metal	-		
		6.5.1.4 Residues Evaporated	5 mg/L or more		
		6.5.1.5 Potassium permanganate consumption	1.0 mg/L or more		
		6.5.2 pernicious ingredients of rubber			
		6.5.2.1 Lead and Cadmium	each 1 mg/L or more		
		6.5.2.2 Heavy metal	-		
		6.5.2.3 Residues Evaporated	5 mg/L or more		
		6.5.2.4 Potassium permanganate consumption	1.0 mg/L or more		
		6.5.2.5 Zinc	0.1 mg/L or more		
		6.5.3 Metal(food contact surface of utensils)	-		
KATS Notice No.2018-194(06.29.2018.)	Household Goods	Supplier's Declaration Standards Annex 11 False Eyelashes		BS-1	N
		5.1 Identification and Composition of Material	-		
		5.3.1 Arylamines	each 5 mg/kg or more		
		5.3.2 Tributyltin Compound	each 0.1 mg/kg or more		
		5.3.3 Formaldehyde	16 mg/kg or more		
		5.3.4 Pb, As	each 1.0 mg/kg or more		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
MOTIE Notice No.2017-018(01.31.2017.)	Children's Product	Common Safety Standard for Children's Product		BS-1	N
		6.1.1 Harmful elements Elution			
		- Sb	more than 10 mg/kg		
		- As	more than 10 mg/kg		
		- Ba	more than 10 mg/kg		
		- Cd	more than 10 mg/kg		
		- Cr	more than 10 mg/kg		
		- Pb	more than 10 mg/kg		
		- Hg	more than 10 mg/kg		
		- Se	more than 10 mg/kg		
		6.1.2 Phthalate plasticizers	each 0.01 % or more		
		6.1.3 Harzarous elements content			
		- Total lead	more than 10 mg/kg		
		- Total Cadmium	more than 10 mg/kg		
		6.1.4 pH	pH 1 ~ pH 14		
		6.1.5 Formaldehyde	16 mg/kg or more		
		6.1.6 Arylamine	each 5 mg/kg or more		
MOTIE Notice No.2019-201 (12.03.2019.)	Children's Product	Common Safety Standard for Children's Product		BS-1	N
		4.1.1 Harmful elements Elution			
		- Sb	more than 10 mg/kg		
		- As	more than 10		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
			mg/kg		
		- Ba	more than 10 mg/kg		
		- Cd	more than 10 mg/kg		
		- Cr	more than 10 mg/kg		
		- Pb	more than 10 mg/kg		
		- Hg	more than 10 mg/kg		
		- Se	more than 10 mg/kg		
		4.1.2 Harzarous elements content			
		- Total lead	more than 10 mg/kg		
		- Total Cadmium	more than 10 mg/kg		
		4.1.3 Phthalate plasticizers	each 0.01 % or more		
		4.1.5 Formaldehyde	16 mg/kg or more		
		4.1.6 Arylamine	each 5 mg/kg or more		
		4.1.7 pH	pH 1 ~ pH 14		
		4.1.4 N-Nitrosamines(as sum of N-nitrosodimethylamine, N-nitrosodiethylamine, N- nitrosodi-n-propyl amine, N-nitrosodi-n-buthylamine, N-nitrosopiperidine, N-nitrosopyrrolidine, N-nitroso morpholine)	0.008 mg/kg or more		
		N-Nitrosatable substances(as sum of N-nitrosodimethylamine, N-nitrosodiethylamine, N- nitrosodi-n- propyl amine, N-nitrosodi-n-buthylamine, N-nitrosopiperidine,	0.08 mg/kg or more		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		N-nitroso pyrrolidine, N-nitrosomorpholine)			
MOTIE Notice No.2021-132 (07.19.2021.)	Children's Product	Common Safety Standard for Children's Product 4.1.1 Harmful elements Elution - Sb - As - Ba - Cd - Cr - Pb - Hg - Se 4.1.2 Harzarous elements content - Total lead - Total Cadmium 4.1.3 Phthalate plasticizers 4.1.5 Formaldehyde 4.1.6 Arylamine 4.1.7 pH 4.1.4 N-Nitrosamines(as sum of N-nitrosodimethylamine, N-nitrosodiethylamine, N-nitrosodi-n-propyl amine, N-nitrosodi-n-buthylamine, N-nitrosopiperidine, N-nitrosopyrrolidine, N-nitroso morpholine) N-Nitrosatable substances(as sum of N-nitrosodimethylamine, N-nitrosodiethylamine, N-nitrosodi-n- propyl amine, N-nitrosodi-n-buthylamine,	- - more than 10 mg/kg more than 10 mg/kg more than 10 mg/kg more than 10 mg/kg more than 10 mg/kg more than 10 mg/kg more than 10 mg/kg more than 10 mg/kg - more than 10 mg/kg more than 10 mg/kg DBP 0.01 % or more BBP 0.01 % or more DEHP 0.01 % or more DnOP 0.01 % or more DINP 0.01 % or more DIDP 0.01 % or more DIBP 0.01 % or more 16 mg/kg or more each 5 mg/kg or more pH 1 ~ pH 14 0.01 mg/kg or more	BS-1	N

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		N-nitrosopiperidine, N-nitroso pyrrolidine, N-nitrosomorpholine)	0.1 mg/kg or more		
MOTIE Notice No.2021-229 (12.29.2021.)	Children's Product	Common Safety Standard for Children's Product 4.1.1 Harmful elements Elution - Sb - As - Ba - Cd - Cr - Pb - Hg - Se 4.1.2 Harzarous elements content - Total lead - Total Cadmium 4.1.3 Phthalate plasticizers 4.1.5 Formaldehyde 4.1.6 Arylamine 4.1.7 pH 4.1.4 N-Nitrosamines(as sum of N-nitrosodimethylamine, N-nitrosodiethylamine, N-nitrosodi-n-propyl amine, N-nitrosodi-n-buthylamine, N-nitrosopiperidine, N-nitrosopyrrolidine, N-nitroso morpholine) N-Nitrosatable substances(as sum of N-nitrosodimethylamine, N-nitrosodiethylamine, N-nitrosodi-n- propyl amine, N-nitrosodi-n-buthylamine,	- - more than 10 mg/kg more than 10 mg/kg more than 10 mg/kg more than 10 mg/kg more than 10 mg/kg more than 10 mg/kg more than 10 mg/kg more than 10 mg/kg - more than 10 mg/kg more than 10 mg/kg DBP 0.01 % or more BBP 0.01 % or more DEHP 0.01 % or more DnOP 0.01 % or more DINP 0.01 % or more DIDP 0.01 % or more DIBP 0.01 % or more 16 mg/kg or more each 5 mg/kg or more pH 1 ~ pH 14	BS-1	N

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		N-nitrosopiperidine, N-nitroso pyrrolidine, N-nitrosomorpholine)	0.01 mg/kg or more 0.1 mg/kg or more		
MOTIE Notice No.2022-220 (12.14.2022.)	Children's Product	Common Safety Standard for Children's Product 4.1.1 Harmful elements Elution - Sb - As - Ba - Cd - Cr - Pb - Hg - Se 4.1.2 Harzarous elements content (B.5 except screening) - Total lead - Total Cadmium 4.1.3 Phthalate plasticizers	- - more than 10 mg/kg more than 10 mg/kg more than 10 mg/kg more than 10 mg/kg more than 10 mg/kg more than 10 mg/kg more than 10 mg/kg more than 10 mg/kg - more than 10 mg/kg more than 10 mg/kg DBP 0.01 % or more BBP 0.01 % or more DEHP 0.01 % or more DnOP 0.01 % or more DINP 0.01 % or more	BS-1	N

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
			DIDP 0.01 % or more DIBP 0.01 % or more		
		4.1.5 Formaldehyde	16 mg/kg or more		
		4.1.6 Arylamine	each 5 mg/kg or more		
		4.1.7 pH	pH 1 ~ pH 14		
		4.1.4 N-Nitrosamines(as sum of N-nitrosodimethylamine, N-nitrosodiethylamine, N-nitrosodi-n-propyl amine, N-nitrosodi-n-buthylamine, N-nitrosopiperidine, N-nitrosopyrrolidine, N-nitroso morpholine)	0.01 mg/kg or more		
		N-Nitrosatable substances(as sum of N-nitrosodimethylamine, N-nitrosodiethylamine, N-nitrosodi-n- propyl amine, N-nitrosodi-n-buthylamine, N-nitrosopiperidine, N-nitroso pyrrolidine, N-nitrosomorpholine)	0.1 mg/kg or more		
MOTIE Notice No.2017-016(01.31.2017.)	Children's Product	Safety Confirmation Standards Annex 2 Care articles for Children Part 1 : Children's bedguards		BS-1	N
		5.4.1 Harmful elements elution	each 10 mg/kg or more		
		5.4.2 Harmful elements content	each 10 mg/kg or more		
		5.4.3 Phthalate Plasticizers Total Contents	each 0.01 % or more		
		5.4.4 Formaldehyde of Textile Products	16 mg/kg or more		
		Part 2 : Pacifier for Infant			
		5.2 Chemical Properties			
		5.2.1 Harmful elements Elution	each 10 mg/kg or more		
		5.2.2 Harmful elements Content	each 10 mg/kg or more		

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02. Chemical Test

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		5.2.3 Phthalate plasticizers	each 0.01 % or more		
		5.2.4 Formaldehyde of Textile Products	16 mg/kg or more		
		5.2.5 N-Nitrosamines & N-Nitrosatable substances	0.01 mg/kg or more 0.1 mg/kg or more		
		5.2.6 2-macaptoimidazoline Elution	20 mg/L or more		
		5.2.7 Formaldehyde Elution	4 mg/L or more		
		5.2.8 Phenol Elution	5 mg/L or more		
		5.2.9 Bisphenol A(BPA) Elution	0.6 mg/L or more		
		Part 3 : Pacifier Hook for Infant			
		5.2 Chemical Properties			
		5.2.1 Harmful elements Elution	each 10 mg/kg or more		
		5.2.2 Harmful elements Content	each 10 mg/kg or more		
		5.2.3 nickel release	0.1 ㎍/㎠/week or more		
		5.2.4 Phthalate plasticizers	each 0.01 % or more		
		5.2.5 Formaldehyde of Textile Products	16 mg/kg or more		
		Part 4. Floor mat			
		5.2.1 Harmful elements Elution	each 10 mg/kg or more		
		5.2.2 Harmful elements Content	each 10 mg/kg or more		
		5.2.3 Phthalate Plasticizers Total Contents	each 0.01 % or more		
		5.2.4 Formaldehyde	16 mg/kg or more		
		5.2.5 Organo tin compounds	0.1 mg/kg or more		
		5.2.6 Arylamines of Textile Products	5 mg/kg or more		
		5.2.7 Flame retardants of Textile Products	5 mg/kg or more		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		5.2.8 Dimethylfumarate	0.05 mg/kg or more		
		5.2.9 Allergic dyes of Textile Products	50 mg/kg or more		
		5.2.10 pH of Textile Products	1 ~ 14		
		5.2.11 Volatile organic compound emission			
		- Toluene	1.40 mg/(m^2 · h) or more		
		- Formamide	0.20 mg/(m^2 · h) or more		
		- N,N-Dimethylforamide	0.40 mg/(m^2 · h) or more		
		- 2-Ethylhexoic acid	0.25 mg/(m^2 · h) or more		
		- Butylhydroxytoluene	0.50 mg/(m^2 · h) or more		
		- 2-Methoxyethanol	0.30 mg/(m^2 · h) or more		
		- Formaldehyde	0.05 mg/(m^2 · h) or more		
MOTIE Notice No.2020-229(12.30.2020.)	Children's Product	Safety Confirmation Standards Annex 6 Toy Part 4. Toxic Chemicals 4. Requirements		BS-1	N
		4.6 N-Nitrosamines(as sum of N-nitrosodimethylamine, N-nitrosodiethylamine, N- nitrosodi-n-propyl amine, N-nitrosodi-n-buthylamine, N-nitrosopiperidine, N-nitrosopyrrolidine, N-nitroso morpholine)	0.01 mg/kg or more		
		N-Nitrosatable substances(as sum of N-nitrosodimethylamine, N-nitrosodiethylamine, N- nitrosodi-n- propyl amine, N-nitrosodi-n-buthylamine, N-nitrosopiperidine,	0.1 mg/kg or more		

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		N-nitroso pyrrolidine, N-nitrosomorpholine)			
		Part 7. Finger paints 4. The requirements			
		4.2 Coloring agents	each 5 mg/kg or more		
		4.4 Elution limit values of Harmful elements	each 10 mg/kg or more		
		4.5 Limits values of primary aromatic amines	each 5 mg/kg or more		
		4.7 pH value	1 ~ 14		
		Part 8. Organic chemicals - The requirements	-		
		Part 9. Organic chemicals - Sample preparation and extraction	-		
		Part 10. Organic Chemistry - Analytical methods	-		
		5.2 Flame retardants			
		- Pentabromodiphenyl ether(total of 3 isomers)	50 mg/kg or more		
		- Octabromodiphenyl ether(total of 4 isomers)	50 mg/kg or more		
		- Tri-o-cresyl phosphate	50 mg/kg or more		
		- Tris(2-chloroethyl) phosphate	50 mg/kg or more		
		- Tris(2-chloro-1-methylethyl)phosphate	5 mg/kg or more		
		- Tris(1,3-dichloro-2-propyl)phosphate	5 mg/kg or more		
		5.3 Coloring agents	each 10 mg/kg or more		
		5.4 Primary aromatic amines 5.5 Monomer and the solvent	each 5 mg/kg or more		
		5.5.1 Acrylamide	0.02 mg/L or more		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		5.5.2 Test Method of Phenol and Bisphenol A	15 mg/L or more 0.1 mg/L or more		
		5.5.3 Formaldehyde	2.5 mg/L or more		
		5.5.4 Trichloroethylene and Dichloromethane	0.02 mg/L or more 0.06 mg/L or more		
		5.5.5 Test Method of			
		Methanol,	5.0 mg/L or more		
		Toluene,	2.0 mg/L or more		
		Ethylbenzene,	1.0 mg/L or more		
		Xylene,	2.0 mg/L(Total) or more		
		Cyclohexanone	46 mg/L or more		
		Test Method of			
		5.5.6 2-methoxyethyl acetate,	0.1 mg/L or more		
		2-ethoxyethanol,	0.1 mg/L or more		
		2-ethoxyethyl acetate,	0.1 mg/L or more		
		bis(2-methoxyethyl) ether,	0.1 mg/L or more		
		2-methoxypropyl acetate,	0.1 mg/L or more		
		styrene,	0.75 mg/L or more		
		3,5,5-trimethyl-2-cyclohexene-1-one	3.0 mg/L or more		
		and nitro benzene	0.02 mg/L or more		
		5.6 wood preservatives			
		2,4-Dichlorophenol	5 mg/kg or more		
		2,4,6-Trichlorophenol	5 mg/kg or more		

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		2,4,5-Trichlorophenol	10 mg/kg or more		
		2,3,4,6-Trichlorophenol	1 mg/kg or more		
		Pentachlorophenol	2 mg/kg or more		
		Lindane	2 mg/kg or more		
		Cyfluthrin	10 mg/kg or more		
		Cypermethrin	10 mg/kg or more		
		Deltamethrin	10 mg/kg or more		
		Permethrin	10 mg/kg or more		
		5.7 Preservatives			
		Phenol	5 mg/kg or more		
		1,2-Benzylishthiazolin-3-one	5 mg/kg or more		
		2-Methyl-4-isothiazolin-3-one	0.25 mg/kg or more		
		5-Chloro-2-methyl-4-isothiazolin-3-one	0.75 mg/kg or more		
		5-Chloro-2-methyl-4-isothiazolin-3-one + 2-Methyl-4-isothiazolin-3-one	1 mg/kg or more		
		Formaldehyde (free)	0.002 % or more		
		5.8 Plasticizers	each 0.03 mg/L or more		
		5.9 Ethyl acetate, Methanol	each 10 mg/kg or more		
		Annex A (informative) Methods of analysis for volatile solvents			
		- Toluene	100 $\mu g/cm^3$ or more		
		- Ethylbenzene	2 500 $\mu g/cm^3$ or more		
		- Xylene (o-, m-, p-)	500 $\mu g/cm^3$ or more		
		- 1,3,5-Trimethylbenzene	1 500 $\mu g/cm^3$ or more		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		(mesitylene)			
		- Trichloroethylene	30 μg/cm^3 or more		
		- Dichloromethane	1 500 μg/cm^3 or more		
		- n-Hexane	1 000 μg/cm^3 or more		
		- Nitrobenzene	30 μg/cm^3 or more		
		- Cyclohexanone	50 μg/cm^3 or more		
		- 3,5,5-Trimethyl-2-cyclohexene-1-one	100 μg/cm^3 or more		
MOTIE Notice No.2021-230(12.29.2021.)	Children's Product	Safety Confirmation Standards Annex 6 Toy Part 4. Toxic Chemicals 4. Requirements		BS-1	N
		4.6 N-Nitrosamines(as sum of N-nitrosodimethylamine, N-nitrosodiethylamine, N- nitrosodi-n-propyl amine, N-nitrosodi-n-buthylamine, N-nitrosopiperidine, N-nitrosopyrrolidine, N-nitroso morpholine)	0.01 mg/kg or more		
		N-Nitrosatable substances(as sum of N-nitrosodimethylamine, N-nitrosodiethylamine, N- nitrosodi-n- propyl amine, N-nitrosodi-n-buthylamine, N-nitrosopiperidine, N-nitroso pyrrolidine, N-nitrosomorpholine)	0.1 mg/kg or more		
		Part 7. Finger paints 4. The requirements			
		4.2 Coloring agents	each 5 mg/kg or more		
		4.4 Elution limit values of Harmful elements	each 10 mg/kg or more		
		4.5 Limits values of primary	each 5 mg/kg or		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		aromatic amines	more		
		4.7 pH value	1 ~ 14		
		Part 8. Organic chemicals - The requirements	-		
		Part 9. Organic chemicals - Sample preparation and extraction	-		
		Part 10. Organic Chemistry - Analytical methods	-		
		5.2 Flame retardants			
		- Pentabromodiphenyl ether(total of 3 isomers)	50 mg/kg or more		
		- Octabromodiphenyl ether(total of 4 isomers)	50 mg/kg or more		
		- Tri-o-cresyl phosphate	50 mg/kg or more		
		- Tris(2-chloroethyl) phosphate	50 mg/kg or more		
		- Tris(2-chloro-1-methylethyl)phosphate	5 mg/kg or more		
		- Tris(1,3-dichloro-2-propyl)phosphate	5 mg/kg or more		
		5.3 Coloring agents	each 10 mg/kg or more		
		5.4 Primary aromatic amines 5.5 Monomer and the solvent	each 5 mg/kg or more		
		5.5.1 Acrylamide	0.02 mg/L or more		
		5.5.2 Test Method of Phenol and Bisphenol A	15 mg/L or more 0.1 mg/L or more		
		5.5.3 Formaldehyde	2.5 mg/L or more		
		5.5.4 Trichloroethylene and Dichloromethane	0.02 mg/L or more 0.06 mg/L or more		
		5.5.5 Test Method of			

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02. Chemical Test

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Methanol,	5.0 mg/L or more		
		Toluene,	2.0 mg/L or more		
		Ethylbenzene,	1.0 mg/L or more		
		Xylene,	2.0 mg/L(Total) or more		
		Cyclohexanone	46 mg/L or more		
		Test Method of			
		5.5.6 2-methoxyethyl acetate,	0.1 mg/L or more		
		2-ethoxyethanol,	0.1 mg/L or more		
		2-ethoxyethyl acetate,	0.1 mg/L or more		
		bis(2-methoxyethyl) ether,	0.1 mg/L or more		
		2-methoxypropyl acetate,	0.1 mg/L or more		
		styrene,	0.75 mg/L or more		
		3,5,5-trimethyl-2-cyclohexene-1-one	3.0 mg/L or more		
		and nitro benzene	0.02 mg/L or more		
		5.6 wood preservatives			
		2,4-Dichlorophenol	5 mg/kg or more		
		2,4,6-Trichlorophenol	5 mg/kg or more		
		2,4,5-Trichlorophenol	10 mg/kg or more		
		2,3,4,6-Trichlorophenol	1 mg/kg or more		
		Pentachlorophenol	2 mg/kg or more		
		Lindane	2 mg/kg or more		
		Cyfluthrin	10 mg/kg or more		
		Cypermethrin	10 mg/kg or more		

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02. Chemical Test

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Deltamethrin	10 mg/kg or more		
		Permethrin	10 mg/kg or more		
		5.7 Preservatives			
		Phenol	5 mg/kg or more		
		1,2-Benzylishthiazolin-3-one	5 mg/kg or more		
		2-Methyl-4-isothiazolin-3-one	0.25 mg/kg or more		
		5-Chloro-2-methyl-4-isothiazolin-3-one	0.75 mg/kg or more		
		5-Chloro-2-methyl-4-isothiazolin-3-one	1 mg/kg or more		
		+ 2-Methyl-4-isothiazolin-3-one			
		Formaldehyde (free)	0.002 % or more		
		5.8 Plasticizers	each 0.03 mg/L or more		
		5.9 Ethyl acetate, Methanol	each 10 mg/kg or more		
		Annex A (informative) Methods of analysis for volatile solvents			
		- Toluene	100 μg/cm^3 or more		
		- Ethylbenzene	2 500 μg/cm^3 or more		
		- Xylene (o-, m-, p-)	500 μg/cm^3 or more		
		- 1,3,5-Trimethylbenzene (mesitylene)	1 500 μg/cm^3 or more		
		- Trichloroethylene	30 μg/cm^3 or more		
		- Dichloromethane	1 500 μg/cm^3 or more		
		- n-Hexane	1 000 μg/cm^3 or more		
		- Nitrobenzene	30 μg/cm^3 or more		
		- Cyclohexanone	50 μg/cm^3 or more		
		-	100 μg/cm^3 or more		

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02. Chemical Test

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		3,5,5-Trimethyl-2-cyclohexene-1-one			
MOTIE Notice No.2022-221(12.14.2022.)	Children's Product	Safety Confirmation Standards Annex 6 Toy Part 4. Toxic Chemicals 4. Requirements		BS-1	N
		4.6 N-Nitrosamines(as sum of N-nitrosodimethylamine, N-nitrosodiethylamine, N- nitrosodi-n-propyl amine, N-nitrosodi-n-buthylamine, N-nitrosopiperidine, N-nitrosopyrrolidine, N-nitroso morpholine)	0.01 mg/kg or more		
		N-Nitrosatable substances(as sum of N-nitrosodimethylamine, N-nitrosodiethylamine, N- nitrosodi-n- propyl amine, N-nitrosodi-n-buthylamine, N-nitrosopiperidine, N-nitroso pyrrolidine, N-nitrosomorpholine)	0.1 mg/kg or more		
		Part 7. Finger paints 4. The requirements			
		4.2 Coloring agents	each 5 mg/kg or more		
		4.4 Elution limit values of Harmful elements	each 10 mg/kg or more		
		4.5 Limits values of primary aromatic amines	each 5 mg/kg or more		
		4.7 pH value	1 ~ 14		
		Part 8. Organic chemicals - The requirements	-		
		Part 9. Organic chemicals - Sample preparation and extraction	-		
		Part 10. Organic Chemistry - Analytical methods	-		
		5.2 Flame retardants			

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02. Chemical Test

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		- Pentabromodiphenyl ether(total of 3 isomers)	50 mg/kg or more		
		- Octabromodiphenyl ether(total of 4 isomers)	50 mg/kg or more		
		- Tri-o-cresyl phosphate	50 mg/kg or more		
		- Tris(2-chloroethyl) phosphate	50 mg/kg or more		
		- Tris(2-chloro-1-methylethyl)phosphate	5 mg/kg or more		
		- Tris(1,3-dichloro-2-propyl)phosphate	5 mg/kg or more		
		5.3 Coloring agents	each 10 mg/kg or more		
		5.4 Primary aromatic amines 5.5 Monomer and the solvent	each 5 mg/kg or more		
		5.5.1 Acrylamide	0.02 mg/L or more		
		5.5.2 Test Method of Phenol and Bisphenol A	15 mg/L or more 0.1 mg/L or more		
		5.5.3 Formaldehyde	2.5 mg/L or more		
		5.5.4 Trichloroethylene and Dichloromethane	0.02 mg/L or more 0.06 mg/L or more		
		5.5.5 Test Method of			
		Methanol,	5.0 mg/L or more		
		Toluene,	2.0 mg/L or more		
		Ethylbenzene,	1.0 mg/L or more		
		Xylene,	2.0 mg/L(Total) or more		
		Cyclohexanone	46 mg/L or more		
		Test Method of			

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		5.5.6 2-methoxyethyl acetate,	0.1 mg/L or more		
		2-ethoxyethanol,	0.1 mg/L or more		
		2-ethoxyethyl acetate,	0.1 mg/L or more		
		bis(2-methoxyethyl) ether,	0.1 mg/L or more		
		2-methoxypropyl acetate,	0.1 mg/L or more		
		styrene,	0.75 mg/L or more		
		3,5,5-trimethyl-2-cyclohexene-1-one	3.0 mg/L or more		
		and nitro benzene	0.02 mg/L or more		
		5.6 wood preservatives			
		2,4-Dichlorophenol	5 mg/kg or more		
		2,4,6-Trichlorophenol	5 mg/kg or more		
		2,4,5-Trichlorophenol	10 mg/kg or more		
		2,3,4,6-Trichlorophenol	1 mg/kg or more		
		Pentachlorophenol	2 mg/kg or more		
		Lindane	2 mg/kg or more		
		Cyfluthrin	10 mg/kg or more		
		Cypermethrin	10 mg/kg or more		
		Deltamethrin	10 mg/kg or more		
		Permethrin	10 mg/kg or more		
		5.7 Preservatives			
		Phenol	5 mg/kg or more		
		1,2-Benzylishthiazolin-3-one	5 mg/kg or more		
		2-Methyl-4-isothiazolin-3-one	0.25 mg/kg or more		
		5-Chloro-2-methyl-4-isothiazolin-	0.75 mg/kg or more		

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02. Chemical Test

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Test method	Products and materials	Standard designation	Test range	Site	Field testing
		3-one			
		5-Chloro-2-methyl-4-isothiazolin-3-one	1 mg/kg or more		
		+ 2-Methyl-4-isothiazolin-3-one			
		Formaldehyde (free)	0.002 % or more		
		5.8 Plasticizers	each 0.03 mg/L or more		
		5.9 Ethyl acetate, Methanol	each 10 mg/kg or more		
		Annex A (informative) Methods of analysis for volatile solvents			
		- Toluene	100 μg/cm^3 or more		
		- Ethylbenzene	2 500 μg/cm^3 or more		
		- Xylene (o-, m-, p-)	500 μg/cm^3 or more		
		- 1,3,5-Trimethylbenzene (mesitylene)	1 500 μg/cm^3 or more		
		- Trichloroethylene	30 μg/cm^3 or more		
		- Dichloromethane	1 500 μg/cm^3 or more		
		- n-Hexane	1 000 μg/cm^3 or more		
		- Nitrobenzene	30 μg/cm^3 or more		
		- Cyclohexanone	50 μg/cm^3 or more		
		- 3,5,5-Trimethyl-2-cyclohexene-1-one	100 μg/cm^3 or more		
MOTIE Notice No.2020-229(12.30.2020.)	Children's Product	Safety Confirmation Standards Annex 11 School things		BS-1	N
		5.7 Formaldehyde	16 mg/kg or more 0.002 % or more		
		5.9 pH(Liquid Glues)	1 ~ 14		
		5.10 N-Nitrosamines(as sum of N-nitrosodimethylamine,	0.01 mg/kg or more		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		N-nitrosodiethylamine, N- nitrosodi-n-propyl amine, N-nitrosodi-n-buthylamine, N-nitrosopiperidine, N-nitrosopyrrolidine, N-nitroso morpholine)			
		N-Nitrosatable substances(as sum of N-nitrosodimethylamine, N-nitrosodiethylamine, N- nitrosodi-n- propyl amine, N-nitrosodi-n-buthylamine, N-nitrosopiperidine, N-nitroso pyrrolidine, N-nitrosomorpholine)	0.1 mg/kg or more		
MOTIE Notice No.2021-230(12.29.2021.)	Children's Product	Safety Confirmation Standards Annex 11 School things		BS-1	N
		5.7 Formaldehyde	16 mg/kg or more 0.002 % or more		
		5.9 pH(Liquid Glues)	1 ~ 14		
		5.10 N-Nitrosamines(as sum of N-nitrosodimethylamine, N-nitrosodiethylamine, N- nitrosodi-n-propyl amine, N-nitrosodi-n-buthylamine, N-nitrosopiperidine, N-nitrosopyrrolidine, N-nitroso morpholine)	0.01 mg/kg or more		
		N-Nitrosatable substances(as sum of N-nitrosodimethylamine, N-nitrosodiethylamine, N- nitrosodi-n- propyl amine, N-nitrosodi-n-buthylamine, N-nitrosopiperidine, N-nitroso pyrrolidine, N-nitrosomorpholine)	0.1 mg/kg or more		
MOTIE Notice No.2022-221(12.14.2022.)	Children's Product	Safety Confirmation Standards Annex 11 School things		BS-1	N
		5.7 Formaldehyde	16 mg/kg or		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
			more 0.002 % or more		
		5.9 pH(Liquid Glues)	1 ~ 14		
		5.10 N-Nitrosamines(as sum of N-nitrosodimethylamine, N-nitrosodiethylamine, N- nitrosodi-n-propyl amine, N-nitrosodi-n-buthylamine, N-nitrosopiperidine, N-nitrosopyrrolidine, N-nitroso morpholine)	0.01 mg/kg or more		
		N-Nitrosatable substances(as sum of N-nitrosodimethylamine, N-nitrosodiethylamine, N- nitrosodi-n- propyl amine, N-nitrosodi-n-buthylamine, N-nitrosopiperidine, N-nitroso pyrrolidine, N-nitrosomorpholine)	0.1 mg/kg or more		
KATS Notice No.2017-032(02.08.2017.)	Children's Product	Safety Confirmation Annex 69 Breast Pads		BS-1	N
		6.1 pH,	1 ~ 14		
		6.2 Fluorescence brighting agent	-		
		6.3 Formaldehyde,	16 mg/kg or more		
		6.4 Chlorinated phenols,	0.5 mg/kg or more		
		6.5 Azo dyes,	each 5 mg/kg or more		
		6.6 Lead and Cadmium Contents	each 10 mg/kg or more		
BS EN 71-11:2005	Children's Product	Safety of toys. Organic chemical compounds. Methods of analysis 5.2 Flame retardants		BS-1	N
		Pentabromodiphenyl ether (total of 3 isomers)	1 000 mg/kg or less		
		Octabromodiphenyl ether (total of 4 isomers)	1 000 mg/kg or less		
		Tri-o-cresyl phosphate	50 mg/kg or less		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Tris(2-chloroetyl) phosphate	50 mg/kg or less		
		5.3 Colourants	each 10 mg/kg or less		
		5.4 Primary aromatic amines	each 5 mg/kg or less		
		5.5 Monomers and solvents			
		Acrylamide	0.02 mg/L or less		
		Phenol(as a monomer)	15 mg/L or less		
		Phenol(as a preservative)	10 mg/kg or less		
		Bisphenol A	0.1 mg/L or less		
		Formaledhyde	2.5 mg/L or less		
		Trichloroethylene	0.02 mg/L or less		
		Dichloromethane	0.06 mg/L or less		
		Methanol	5.0 mg/L or less		
		Toluene	2.0 mg/L or less		
		Ethylbenzene	1.0 mg/L or less		
		Xylene	2.0 mg/L(total) or less		
		Cyclohexanone	43 mg/L or less		
		2-methoxyethyl acetate	0.1 mg/L or more		
		2-ethoxyethanol	0.1 mg/L or more		
		2-ethoxyethyl acetate	0.1 mg/L or more		
		bis(2-methoxyethyl) ether	0.1 mg/L or more		
		2-methoxypropyl acetate	0.1 mg/L or more		
		styrene	0.75 mg/L or less		
		3,5,5-trimethyl-2-cyclohexene-1-one (isophorone)	3.0 mg/L or less		
		nitrobenzene	0.02 mg/L or less		
		5.6 Wood preservatives			
		2,4-Dichlorophenol	5 mg/kg or less		

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02. Chemical Test

02.034 Children's Product

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		2,4,6-Trichloropheno	5 mg/kg or less		
		2,4,5-Trichloropheno	10 mg/kg or less		
		2,3,4,6-Tetracholrophenol	1 mg/kg or less		
		Pentachlorophenol	2 mg/kg or less		
		Lindane	2 mg/kg or less		
		Cyfluthrin	10 mg/kg or less		
		Cypermethrin	10 mg/kg or less		
		Deltamethrin	10 mg/kg or less		
		Permethrin	10 mg/kg or less		
		preservatives			
		1,2-Benzylisothiazolin-3-one	5 mg/kg or less		
		2-Methyl-4-isothiazolin-3-one	10 mg/kg or less		
		5-Chloro-2-methyl-4-isothiazolin-3-one	10 mg/kg or less		
		5.8 Plasticisers			
		Triphenyl phosphate	0.03 mg/L or less		
		Tri-o-cresyl phosphate	0.03 mg/L or less		
		Tri-m-cresyl phosphate	0.03 mg/L or less		
		Tri-p-cresyl phosphate	0.03 mg/L or less		
BS EN 71-7:2014	Children's Product	Safety of toys. Finger paints. Requirements and test methods Coloring agents Harmful elements primary aromatic amines pH1 ~ 14	each 5 mg/kg or more each 10 mg/kg or more each 5 mg/kg or more 1 ~ 14	BS-1	N
BS EN 71-9:2005+A1:2007	Children's Product	Safety of toys. Organic chemical compounds. Requirements	-	BS-1	N
EN 71-10:2005	Children's Product	Safety of toys - Part 10: Organic chemical compounds - Sample preparation and extraction	-	BS-1	N
KS G ISO 8124-3:2010	Children's Product	Safety of toys — Part 3: Migration of certain elements	Each 10 mg/kg or more	BS-1	N

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03. Electric Test

03.014 Environment and Reliability

Test method	Products and materials	Standard designation	Test range	Site	Field testing
GMW 3172:2018	Vehicles and Related Products	General Specification for Electrical/Electronic Components - Environmental/Durability 9.3.1Vibration with Thermal Cycling 9.3.2 Mechanical Shock - Pothole 9.3.4 Mechanical Shock - Closure Slam 9.4.1 High Temperature Degradation 9.4.2 Thermal Shock Air-To-Air (TS) 9.4.3 Power Temperature Cyclic (PTC) 9.4.5 Humid Heat Cyclic (HHC) 9.4.6 Humid Heat Constant (HHCO)	frequency : (5 ~ 2 000) Hz temperature : (-40 ~ 150) ℃ humidity: (20 ~ 95) % R.H. acceleration : (0.98 ~ 980) m/s^2	BS-1	N
IEC 60068-2-1:2007	Electric Materials and Products	Environmental testing - Part 2-1 : Tests - Test A : Cold [Exception] Test Ad, Ae	temperature : (-40 ~ 20) ℃	BS-1	N
IEC 60068-2-2:2007	Electric Materials and Products	Environmental testing - Part 2-2 : Tests - Test B : Dry heat [Exception] Test Bd, Be	temperature : (30 ~ 150) ℃	BS-1	N
IEC 60068-2-6:2007	Electric Materials and Products	Environmental testing - Part 2-6 : Tests - Test Fc : Vibration (sinusoidal)	frequency : (5 ~ 2000) Hz acceleration : (0.98 ~ 500) m/s^2	BS-1	N
IEC 60068-2-11:2021	Electric Materials and Products	Environmental testing - Part 2-11 : Tests - Test Ka : Salt mist	temperature : 35 ℃ salt solution : 5 % Nacl pH : 6.5 ~ 7.2	BS-1	N
IEC 60068-2-14:2009	Electric Materials and Products	Environmental testing - Part2 - 14 : Tests- Test N : Change of temperature 7. Test Na : Rapid change of temperature with prescribed time of transfer 8. Test Nb : Change of temperature with specified rate of change	temperature : (-40 ~ 150) ℃	BS-1	N

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03. Electric Test

03.014 Environment and Reliability

Test method	Products and materials	Standard designation	Test range	Site	Field testing
IEC 60068-2-27:2008	Electric Materials and Products	Environmental testing - Part 2 - 27 : Tests - Test Ea and guidance : Shock	acceleration : (50 ~ 980) m/s^2 duration time : (6 ~ 18) ms	BS-1	N
IEC 60068-2-30:2005	Electric Materials and Products	Environmental testing - Part 2 - 30 : Tests - Test Db : Damp heat, cyclic (12 h + 12 h cycle)	temperature : (25 ~ 55) ℃ humidity : (45 ~ 95) % R.H.	BS-1	N
IEC 60068-2-38:2021	Electric Materials and Products	Environmental testing - Part 2 - 38 : Tests - Test Z/AD : Composite temperature/humidity cyclic test	temperature : (-10 ~ 65) ℃ humidity : (20 ~ 95) % R.H.	BS-1	N
IEC 60068-2-52:2017	Electric Materials and Products	Environmental testing - Part 2-52 : Tests - Test Kb: Salt mist, cyclic (sodium, chloride solution) [Exception] Test 7,8	temperature: (25 ~ 60) ℃ humidity : (50 ~ 93) % R.H. salt solution : 5 % Nacl pH : 6.5 ~ 7.2	BS-1	N
IEC 60068-2-57:2013	Electric Materials and Products	Environmental testing - Part 2-57 : Tests - Test Ff: Vibration - Time-history and sine-beat method	frequency : (5 ~ 2 000) Hz acceleration : (0.98 ~ 500) m/s^2	BS-1	N
IEC 60068-2-64:2008	Electric Materials and Products	Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance	frequency : (5 ~ 2 000) Hz acceleration : (0.98 ~ 300) m/s^2	BS-1	N
IEC 60068-2-78:2012	Electric Materials and Products	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	30 ℃, 93 % R.H. 30 ℃, 85 % R.H. 40 ℃, 93 % R.H. 40 ℃, 85 % R.H.	BS-1	N
IEC 61373:2010	Electric Materials and Products	Railway applications - Rolling stock equipment - Shock and vibration tests	frequency : (5 ~ 2 000) Hz acceleration : (0.98 ~ 300) m/s^2 duration time : (6 ~ 30) ms acceleration : (30 ~ 1 000)m/s^2	BS-1	N
ISO 16750-3:2012	Vehicles and Related Products	Road vehicles - Environmental conditions and testing for	temperature: (-40 ~ 150) ℃	BS-1	N

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03. Electric Test

03.014 Environment and Reliability

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		electrical and electronic equipment - Part 3 : Mechanical loads 4.1.2.1 Test Ⅰ Passenger car, engine 4.1.2.2 Test Ⅱ Passenger car, gearbox 4.1.2.3 Test Ⅲ Passenger car, flexible plenum chamber 4.1.2.4 Test Ⅳ Passenger car, sprung masses	frequency : (5 ~ 2 000) Hz acceleration : (0.98 ~ 980) m/s^2		
ISO 16750-4:2010	Vehicles and Related Products	Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 4 : Climatic loads 5.1 Tests at constant temperature 5.2 Temperature step test 5.3 Temperature cycling tests 5.6 Humid heat, cyclic test 5.7 Damp heat, steady state test	temperature: (-40 ~ 150) ℃ humidity : (50 ~ 95) % R.H.	BS-1	N
KS C IEC 60068-2-1:2007	Electric Materials and Products	Environmental testing - Part 2-1 : Tests - Test A : Cold [Exception] Test Ad,Ae	temperature: (-40 ~ 20) ℃	BS-1	N
KS C IEC 60068-2-2:2007	Electric Materials and Products	Environmental testing - Part 2-2 : Tests - Test B: Dry heat [Exception] Test Bd,Be	temperature: (30 ~ 150) ℃	BS-1	N
KS C IEC 60068-2-6:2015	Electric Materials and Products	Environmental testing - Part 2-6 : Tests - Test Fc: Vibration(sinusoidal)	frequency : (5 ~ 2 000) Hz acceleration : (0.98 ~ 500) m/s^2	BS-1	N
KS C IEC 60068-2-11:2021	Electric Materials and Products	Environmental testing-Part 2-11 :Tests-Test Ka: Salt mist	temperature: 35 ℃ salt solution : 5 % Nacl pH : 6.5 ~ 7.2	BS-1	N
KS C IEC 60068-2-14:2009	Electric Materials and Products	Environmental testing - Part 2-14 : Tests - Test N: Change of temperature	temperature: (-40 ~ 150) ℃	BS-1	N
KS C IEC 60068-2-27:2008	Electric Materials and Products	Environmental testing-Part 2-27 :Tests-Test	acceleration : (50 ~ 980) m/s^2	BS-1	N

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03. Electric Test

03.014 Environment and Reliability

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Ea: and guidance: Shock	duration time : (6 ~ 18) ms		
KS C IEC 60068-2-30:2005	Electric Materials and Products	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic(12 h+12 h cycle)	temperature: (25 ~ 55) ℃ humidity : (45 ~ 95) % R.H.	BS-1	N
KS C IEC 60068-2-38:2021	Electric Materials and Products	Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test	temperature: (-10 ~ 65) ℃ humidity : (20 ~ 95) % R.H.	BS-1	N
KS C IEC 60068-2-52:2017	Electric Materials and Products	Environmental testing - Part 2 : Tests - Test Kb : Salt mist, cyclic(sodium chloride solution) [Exception] Test method 7,8	temperature: (25 ~ 60)℃ humidity : (50 ~ 93) % R.H. salt solution : 5 % Nacl pH : 6.5 ~ 7.2	BS-1	N
KS C IEC 60068-2-57:2013	Electric Materials and Products	Environmental testing-Part 2-57 :Tests-Test Ff: Vibration-Time-history and sine-beat method	frequency : (5 ~ 2 000) Hz acceleration : (0.98 ~ 500) m/s^2	BS-1	N
KS C IEC 60068-2-64:2008	Electric Materials and Products	Environmental testing - Part 2-64: Tests - Test Fh : Vibration, broadband random and guidance	frequency : (5 ~ 2 000) Hz acceleration : (0.98 ~ 300) m/s^2	BS-1	N
KS C IEC 60068-2-78:2012	Electric Materials and Products	Environmental testing-Part 2-78 :Tests-Test Cab: Damp heat, steady state	30 ℃, 93 % R.H. 30 ℃, 85 % R.H. 40 ℃, 93 % R.H. 40 ℃, 85 % R.H.	BS-1	N
KS C IEC 61373:2010	Electric Materials and Products	Railway applications-Rolling stock equipment-Shock and vibration tests	frequency : (5 ~ 2 000) Hz acceleration : (0.98 ~ 300)m/s^2 duration time : (6 ~ 30)ms acceleration : (30 ~ 1 000)m/s^2	BS-1	N
KS R 1034:2006	Vehicles and Related Products	Vibration testing methods for automobile parts	frequency : (5 ~ 2 000) Hz acceleration :: (0.98 ~ 500) m/s^2	BS-1	N

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03. Electric Test

03.014 Environment and Reliability

Test method	Products and materials	Standard designation	Test range	Site	Field testing
KS R 9144:2021	Railways and Related Products	Test methods for vibration of parts of railway rolling stock	frequency : (10 ~ 70) Hz acceleration : (0.98 ~ 500) m/s^2	BS-1	N
MIL-STD167-1A:2005	Railways and Related Products	DEPARTMENT OF DEFENSE TEST METHOD STANDARD MECHANICAL VIBRATIONS OF SHIPBOARD EQUIPMENT (TYPE 1 - ENVIRONMENTAL AND TYPE II - INTERNALLY EXCITED)	frequency : (4 ~ 100) Hz, acceleration : (0.98 ~ 300)m/s^2	BS-1	N
MIL-STD-202H:2015	Railways and Related Products	DEPARTMENT OF DEFENSE TEST METHOD STANDARD ELECTRONIC AND ELECTRICAL COMPONENT PARTS 101 Salt Atmosphere(corrosion) 103 Humidity(Steady state) 106 Moisture resistance 201 Vibration 204 Vibration, high frequency 213 Shock(specified pulse) 214 Random vibration [Exception] 107 Thermal shock	temperature: (-40 ~ 150) ℃ humidity : (50 ~ 95) % R.H. temperature: 35 ℃ salt solution : 5 % Nacl pH : 6.5 ~ 7.2 frequency : (4 ~ 2 000) Hz acceleration : (0.98 ~ 980) m/s^2 duration time : (6 ~ 18) ms	BS-1	N
MIL-STD-810F:2000	Railways and Related Products	Environmental engineering considerations and laboratory tests 501.4 High temperature 502.4 Low temperature 503.4 Temperature Shock 507.4 Humidity 509.4 Salt Fog 514.5 Vibration 516.5 Shock	temperature: (-60 ~ 150) ℃ humidity : (14 ~ 95) % R.H. temperature: 35 ℃ salt solution : 5 % Nacl pH : 6.5 ~ 7.2 frequency : (4 ~ 2 000) Hz acceleration : (0.98 ~ 980) m/s^2 duration time : (6 ~ 18) ms	BS-1	N
MIL-STD-810F:2003	Railways and Related Products	Environmental engineering considerations and laboratory	temperature: (-60 ~ 150) ℃	BS-1	N

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03. Electric Test

03.014 Environment and Reliability

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		tests 501.4 High temperature 502.4 Low temperature 503.4 Temperature Shock 507.4 Humidity 509.4 Salt Fog 514.5 Vibration 516.5 Shock	humidity : (20 ~ 98) % R.H. temperature: 35 ℃ salt solution : 5 % Nacl pH : 6.5 ~ 7.2 frequency : (4 ~ 2 000) Hz acceleration : (0.98 ~ 980) m/s^2 duration time : (6 ~ 18) ms		
MIL-STD-810G:2008	Railways and Related Products	Environmental engineering considerations and laboratory tests 501.5 High temperature 502.5 Low temperature 503.5 Temperature Shock 507.5 Humidity 509.5 Salt Fog 514.6 Vibration 516.6 Shock 528 Mechanical Vibrations of Shipboard Equipment	temperature: (-60 ~ 150) ℃ humidity : (14 ~ 95) % R.H. temperature: 35 ℃ salt solution : 5 % Nacl pH : 6.5 ~ 7.2 frequency : (4 ~ 2 000) Hz acceleration : (0.98 ~ 980) m/s^2 duration time : (6 ~ 18) ms	BS-1	N
MIL-STD-810G:2014	Railways and Related Products	Environmental engineering considerations and laboratory tests 501.6 High temperature 502.6 Low temperature 503.6 Temperature Shock 507.6 Humidity 509.6 Salt Fog 514.7 Vibration 516.7 Shock 528.1 Mechanical Vibrations of Shipboard Equipment	temperature: (-60 ~ 150) ℃ humidity : (14 ~ 95) % R.H. temperature: 35 ℃ salt solution : 5 % Nacl pH : 6.5 ~ 7.2 frequency : (4 ~ 2 000) Hz acceleration : (0.98 ~ 980) m/s^2 duration time : (6 ~ 18) ms	BS-1	N
MIL-STD-810H:2019	Railways and R elated Products	Environmental engineering considerations and laboratory	temperature: (-60 ~ 150) ℃	BS-1	N

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03. Electric Test

03.014 Environment and Reliability

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		tests 501.7 High temperature 502.7 Low temperature 503.7 Temperature Shock 507.6 Humidity 509.7 Salt Fog 514.8 Vibration 516.8 Shock 528.1 Mechanical Vibrations of Shipboard Equipment	humidity : (14 ~ 95) % R.H. temperature: 35 ℃ salt solution : 5 % Nacl pH : 6.5 ~ 7.2 frequency : (4 ~ 2 000) Hz acceleration : (0.98 ~ 980) m/s^2 duration time : (6 ~ 18) ms		

04. Heat and Temperature Measurement

04.002 Fire

Test method	Products and materials	Standard designation	Test range	Site	Field testing
MOLIT Notice No.2023-24(01.09.2023.)	Fire	Quality recognition and management standards for building materials, etc. Chapter 6 Performance criteria for Flame Retardant of building finishing materials and fire spread protection structure Article 23 (incombustibility Materials) Paragraph 1 and 2 Article 24 (Semi-incombustibility Materials) Paragraph 1 and 2 Article 25 (flame retardant materials) Paragraph 1 and 2	(0 ~ 15) min (0 ~ 1 350) ℃ (0 ~ 100) kW/m^2	BS-1	N
ISO 1182:2020	Fire	Reaction to fire tests for products - Non-combustibility test	(0 ~ 1 350) ℃	BS-1	N
ISO 5660-1:2015	Fire	Reaction-to-fire tests - Heat release, smoke production and mass loss rate - Part 1: Heat release rate (cone calorimeter	(0 ~ 100) kW/㎡	BS-1	N

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04. Heat and Temperature Measurement

04.002 Fire

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		method) and smoke production rate (dynamic measurement)			
KS F 2271:2021	Fire	Testing method for gas toxicity of finish materials of buildings	(0 ~ 15) min	BS-1	N
KS F ISO 1182:2020	Fire	Reaction to fire test for products Non-comnustibility test	(0 ~ 1 350) °C	BS-1	N
KS F ISO 5660-1:2015	Fire	Reaction-to-fire tests－Heat release, smoke production and mass loss rate－Part 1 : Heat release rate(cone calorimeter method) and smoke production rate(dynamic measurement)	(0 ~ 100) kW/㎡	BS-1	N
KS C 9806:2021	Fire	Digital door locks		SF-1	N
		6.9 Operation performance test (exposure to fire)	Heating temperature : (0 ~ 300) ℃		
		6.14 Fire resistance test	Heating temperature : (0 ~ 1200) ℃		
KS F 2129:2014	Fire	Inspection standard of heavy-weight rolling shutter for buildings		SF-1	N
		4.4 Operating test	Appearance, (0 ~ 10) m/min		
		4.5 Fire resistance performance test	Heating temperature : (0 ~ 1200) ℃		
		4.6 Smoke penetration performance test	Pressure : (0 ~ 250) Pa		
KS F 2257-1:2019	Fire	Methods of fire resistance test for elements of building construction - general requirements	Heating temperature : (0 ~ 1 200) ℃ Unexposed surface temperature : (0 ~ 400) ℃	SF-1	N
KS F 2257-4:2015	Fire	Methods of fire resistance test for elements of building construction - specific requirements for loadbearing	Heating temperature : (0 ~ 1 200) ℃ Unexposed	SF-1	N

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04. Heat and Temperature Measurement

04.002 Fire

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		vertical separating elements	surface temperature : (0 ~ 400) ℃		
KS F 2257-5:2014	Fire	Methods of fire resistance test for elemenfs of building construction - Specific requirements for loadbearing horizontal separating elements	Heating temperature : (0 ~ 1 200) ℃ Unexposed surface temperature : (0 ~ 400) ℃	SF-1	N
KS F 2257-6:2014	Fire	Methods fire resistance test for elements of building construction-specific requirements for beams	Heating temperature : (0 ~ 1 200) ℃ Unexposed surface temperature : (0 ~ 400) ℃	SF-1	N
KS F 2257-8:2015	Fire	Method of fire resistance test for elements of building construction - Specific requirements for non-loadbearing vertical separating elements	Heating temperature : (0 ~ 1 200) ℃ Unexposed surface temperature : (0 ~ 400) ℃	SF-1	N
KS F 2257-9:2013	Fire	Method of fire resistance test for elements of building construction - Specific requirements for non-loadbearing ceiling elements	Heating temperature : (0 ~ 1 200) ℃ Unexposed surface temperature : (0 ~ 400) ℃	SF-1	N
KS F 2268-1:2021	Fire	Fire resistance test for door assemblies	Heating temperature : (0 ~ 1 200) ℃ Unexposed surface temperature : (0 ~ 400) ℃	SF-1	N
KS F 2845:2023	Fire	Fire resistance test for glazed elements	Heating temperature : (0 ~ 1 200) ℃ Unexposed	SF-1	N

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04. Heat and Temperature Measurement

04.002 Fire

Test method	Products and materials	Standard designation	Test range	Site	Field testing
			surface temperature : (0 ~ 400) ℃		
KS F 4510:2021	Fire	Heavy-weight rolling shutter for buildings	-	SF-1	N
		11.2 Fire resistance test of shutter	Heating temperature : (0 ~ 1 200) ℃ Unexposed surface temperature : (0 ~ 400) ℃		
		11.3 Measuring smoke penetration through shutters	Pressure : (0 ~ 250) Pa		
		11.6 Opening and closing test of shutter, a), h)	Appearance, (0 ~ 10) m/min		
KS F ISO 10295-1:2013	Fire	Fire tests for building elements and component - Fire testing of service installing - Part 1: Penetration seals	Heating temperature : (0 ~ 1 200) ℃ Unexposed surface temperature : (0 ~ 400) ℃	SF-1	N
MOLIT Notice No.2018-775 (12.07.2018.)	Fire	Test standard structure alterations procedures and installation of balcony	-	SF-1	N
		Article 4 (Structure of fire boad or fire glazing) Paragraph 5	(0 ~ 1 200) ℃		
MOLIT Enforcement Rule No.1123 (04.29.2022.)	Fire	Enforcement Rule of the Standards for Evacuation and Fire Prevention for Buildings	-	SF-1	N
		Article 24 (Finishing materials for Buildings) Paragraph 12	(0 ~ 1 200) ℃		
MOLIT Notice No.2020-44 (01.30.2020.)	Fire	The standard of automatic fire shutters and fire doors, fire dampers	-	SF-1	N

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04. Heat and Temperature Measurement

04.002 Fire

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Article5 Paragraph 1 Shutter	(0 ~ 1 200) ℃, (0 ~ 250) Pa		
		Article5 Paragraph 2 Firedoors	(0 ~ 1 200) ℃, (0 ~ 250) Pa		
		Article5 Paragraph 3 Liftdoor	(0 ~ 1 200) ℃, (0 ~ 250) Pa		
		Article5 Paragraph 4 Digital doorlock	(0 ~ 1 200) ℃, (0 ~ 300) ℃		
MOLIT Notice No.2023-24 (01.09.2023.)	Fire	The standard of accreditation of building materials	-	SF-1	N
		Article 35 Standard and Configuration for fire damper [Attached table 10] Fires Resistance test for fire damper	Heating temperature : (0 ~ 1 200) ℃ Pressure difference : (0 ~ 100) Pa		
		Article 36 The performance test and Standard of Top-down evacuation zone	Heating temperature : (0 ~ 1 200) ℃ Weight : (0 ~ 637 N / 0.2 ㎡)		
		Article 37 The test method of windows	Heating temperature : (0 ~ 1 200) ℃		
		The standard of accreditation of building materials [Appendix] (2023.04.04) [Appendix 1] The test methods of fire resistant constructions 2. Fire test method of Fire-resistance construction 3 The option test method of Fire resistance construction [Appendix 3] The test methods of fire door and automatic fire shutters [Appendix 4] Test method of refractory filling structures 2.2 Facility penetrating part filling system Fire resistance test method 2.3 Linear joint filling system	Heating temperature : (0 ~ 1 200) ℃ Weight : (0 ~ 1 000) kg Pressure difference : (0 ~ 250) Pa Static torsion : (0 ~ 600) N Vertical load : (0 ~ 1 000) N Opening and closing force : (0 ~ 200) N Opening and closing repeatability :		

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04. Heat and Temperature Measurement

04.002 Fire

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		Fire resistance test method	(0 ~ 100 000) times Impact : (0 ~ 100) cm Operation performance test temperature : (0 ~ 300) ℃ Door Closers weight : (0 ~ 200) N		
		Building fire safety monitoring (in the field of building materials), alternative facilities for apartment evacuation spaces, and other building materials Detailed operating guidelines [Appendix] (2022.10.28.) [Appendix 1] Fire damper performance test method [Appendix 2] Performance test method of top-down evacuation exit [Appendix 3] Quality test method for fireproof glass windows	Heating temperature : (0 ~ 1 200) ℃ Pressure difference : (0 ~ 100) Pa Weight : (0 ~ 637 N / 0.2 ㎡)		

09. Biological Testing

09.002 Microorganisms

Test method	Products and materials	Standard designation	Test range	Site	Field testing
MFDS Notice No.2022-84(12.1.2022.)	Microorganisms	Korean Food Standards Code Part 8. General testing methods		BS-1	N
		4. Microorganism testing methods			

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09. Biological Testing

09.002 Microorganisms

Test method	Products and materials	Standard designation	Test range	Site	Field testing
		4.5.1 The number of bacteria (The number of general bacteria)	0 CFU/g(mL)or more		
		4.10 The number of fungus (The number of yeast & mold)	0 CFU/g(mL)or more		
AATCC 100-2019	Microorganisms	Antibacterial Finishes on Textile Materials: Assessment of	(0 ~ 99.9) %	BS-1	N
AATCC TM147-2011(2016)e	Microorganisms	Antibacterial Activity Assessment of Textile Materials: Parallel Streak Method	0 mm or more	BS-1	N
AATCC TM174-2011(2016)e	Microorganisms	Antimicrobial Activity Assessment of New Carpets	Test Ⅰ: 0 mm or more Test Ⅱ: (0 ~ 99.9) % or more Test Ⅲ: (0 ~ 2)	BS-1	N
AATCC TM30-2017e	Microorganisms	Antifungal Activity, Assessment on Textile Materials: Mildew and Rot Resistance of Textile Materials	Macroscopic growth Microscopic growth No growth	BS-1	N
ASTM D6329-98(2015)	Microorganisms	Standard Guide for Developing Methodology for Evaluating the Ability of Indoor Materials to Support Microbial Growth Using Static Environmental Chambers	1 or more (Log reduction)	BS-1	N
ASTM E2315-16	Microorganisms	Standard Guide for Assessment of Antimicrobial Activity Using a Time-Kill Procedure	(0 ~ 99.999) %	BS-1	N
ASTM G21-15(2021)e1	Microorganisms	Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi	(0 ~ 4) grade	BS-1	N
ISO 20743:2021	Microorganisms	Textiles -- Determination of antibacterial activity of textile products	0 or more (Log reduction)	BS-1	N1
ISO 846:2019	Microorganisms	Plastics -- Evaluation of the action of microorganisms	(0 ~ 5) grade	BS-1	N
JIS L 1902:2015	Microorganisms	Textiles -- Determination of antibacterial activity and efficacy of textile products	3.a) Qualitative test : 0 mm or more	BS-1	N

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09. Biological Testing

09.002 Microorganisms

Test method	Products and materials	Standard designation	Test range	Site	Field testing
			3.b) Quantitative test : log 1 or more		
JIS Z 2801:2010/AMENDMENT1:2012	Microorganisms	Antibacterial products -- Test for antibacterial activity and efficacy	0 or more (Log reduction)	BS-1	N
KS J 3201:1980	Microorganisms	Methods of Test for Fungus Resistance	(1 ~ 3)	BS-1	N
KS K 0693:2022	Microorganisms	Test method for antibacterial activity of textile materials	(0 ~ 99.9) %	BS-1	N
KS K 0890:2022	Microorganisms	Test method for antibacterial activity assessment of textile materials : Parallel streak method	0 mm or more	BS-1	N

End.