



Test Report

No.: SZHL260703365001TY

Date: AUG 20, 2026

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AFG Media Limited

Ground Floor The Tun, 6-8 Jacksons Entry, Edinburgh, EH8 8PJ

The following samples were submitted and identified by/on behalf of the client as:

Sample Descriptions : Plastic helmet and accessories for party
Item No.(s) : BUN-NB83137-
NB95371,NB44773,NB45859,NB70255,NB70484,NB706
42,NB95371,NB95423,NB70145,NB70787,NBK00003,NB
K00005,NBK00009,NBK00010,NBK00013,NBK00014,NB
K00004
P.O./ Ref No.(s) : JIMO4/JIMO3
Country of Origin : China
Country of Destination : United Kingdom,Europe,United States,Canada
Manufacturer : SHANTOU JIM'S TOYS
Labeled Age Grading : 14+, NOT SUITABLE FOR CHILDREN UNDER 3 YEARS
Requested Age Grading : 3+

SGS Order No : SZHL2607033650TY
Age Group Assessed by SGS As Per Age : OVER 3 YEARS
Guideline
Age Group Applied in Testing : OVER 3 YEARS
Sample Receiving Date : JUL 08, 2026
Last Submission Sample Date : AUG 10, 2026
Further Information Date : AUG 14, 2026
Testing Period : JUL 08, 2026 TO AUG 20, 2026



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Selected test(s) as requested by the client, please refer to test result page(s) for details:

Test Requested		Conclusion
1	Per applicant's request, with reference to the selected requirement(s) of the European standard on Safety of toys. Refer to test result page(s) for details:-	--
	EN 71-1:2014+A1:2018 – Safety of toys – Part 1: Mechanical and Physical Properties	PASS
	EN 71-1: 2026 – Safety of toys – Part 1: Mechanical and Physical Properties	PASS
	EN 71-2: 2020 – Safety of toys – Part 2: Flammability	PASS
	EN 71-2: 2020+A1:2025 – Safety of toys – Part 2: Flammability	PASS
	Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to Informative Annex A.26 and A.33 of the European standard on Safety of toys EN 71-1, and also according to the Directive 2009/48/EC and/or Regulation (EU) 2019/1020 -Safety of toys	PASS
2	Per applicant's request, with reference to the selected requirement(s) of the European standard on Safety of toys. Refer to test result page(s) for details:-	--
	BS EN 71-1:2014+A1:2018 – Safety of toys – Part 1: Mechanical and Physical Properties	PASS
	BS EN 71-1: 2026 – Safety of toys – Part 1: Mechanical and Physical Properties	PASS
	BS EN 71-2: 2020 – Safety of toys – Part 2: Flammability	PASS
	BS EN 71-2:2020+A1:2025 – Safety of toys – Part 2: Flammability	PASS
	Labeling requirement (Washing/Cleaning Label, UKCA marking or CE marking, importer/manufacturer name and address, product identification) for the market of Great Britain (England, Wales and Scotland) with reference to the Toys (Safety) Regulations 2011	PASS



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Test Requested		Conclusion
3	EN 14682:2014 safety of children's clothing –cords and drawstrings on children's clothing	NOT APPLICABLE
4	BS EN 14682:2014 safety of children's clothing –cords and drawstrings on children's clothing	NOT APPLICABLE
5	For compliance with the test requirement of Toys Regulations (SOR/2011-17) of Canada Consumer Product Safety Act (S.C.2010, c. 21). (Including amendments SOR/2012-71, SOR/2016-195, SOR/2016-302 and SOR/2018-138, SOR/2022-122 and SOR/2024-217)	--
	CANADA TOYS REGULATIONS (SOR/2011-17) Physical & Mechanical Test	PASS
	CANADA TOYS REGULATIONS (SOR/2011-17) Flammability Test	PASS
6	For compliance with the test requirement of ASTM F963-23 Standard Consumer Safety Specification on Toy Safety.	--
	ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Physical & Mechanical Test	PASS
	ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Flammability Test	PASS
7	For compliance with test requirement of the Physical & Mechanical, Flammability test requirement of Title 16, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A.	--
	Physical and mechanical tests consisting US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 and US CPSC 16 CFR 1501: -US CPSC 16 CFR 1500.48 – Technical requirements for determining a sharp point in toys and other articles intended for use by children under 8 years of ages -US CPSC 16 CFR 1500.49 – 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 -US CPSC 16 CFR 1501 – 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
	US CPSC 16 CFR 1500.44 – Method for determining extremely flammable and flammable solids	PASS
	US CPSC 16 CFR 1610 – Standard for the flammability of clothing textiles	NOT APPLICABLE



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8	Tracking label per section 14 [15 U.S.C. § 2063], (a)(5)(A) of the Consumer Product Safety Act, and Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.	PASS
9	Although product does not fall into the scope of 16 CFR 1263.3 Safety Standard for Button Cell or Coin Batteries and Consumer Products Containing Such Batteries, with reference to ANSI/UL 4200A-2023 Standard for Products Incorporating Button Batteries or Coin Cell Batteries, the regulation was applied as per client's request:	PASS
10	EN71-3: 2019+A2:2024 - Migration of certain elements (Category III:for scrapped-off toy material)	PASS
11	BS EN71-3: 2019+A2:2024 - Migration of certain elements (Category III:for scrapped-off toy material)	PASS
12	ASTM F963-23, Clause 4.3.5.1 – Soluble Heavy Metal in Paint and Similar Surface-coating Materials	PASS
13	ASTM F963-23, Clause 4.3.5.2 – Soluble Heavy Metal in Substrate Materials	PASS
14	ASTM F963-23, Clause 4.3.5.1 – Total Lead in Paint and Similar Surface-coating Materials	PASS
15	ASTM F963-23, Clause 4.3.5.2 – Total Lead in Substrate Materials	PASS
16	ASTM F963-23, Clause 4.3.8 – Phthalates	PASS
17	Part 1303, Title 16, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A.-Lead in paint/similar surface coating material	PASS
18	15 U.S.C. § 1278a and CPSIA section 101(f) - Lead in paint/similar surface coating material	PASS



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Test Requested		Conclusion
19	15 U.S.C. § 1278a and CPSIA section 101(a)(2) - Lead in accessible substrate materials	PASS
20	CONSUMER PRODUCT SAFETY COMMISSION-16 CFR Part 1307, Final Rule, amending CPSIA section 108, Prohibition on Sale of Certain Products Containing Specified Phthalates	PASS
21	US Mercury-Containing Battery Management Act Public Law 104-142(1996)-Mercury (Hg)	PASS
22	US California Proposition 65 - Lead	PASS
23	US California Proposition 65- Phthalate	PASS
24	Canada Consumer Product Safety Act (S.C. 2010, c. 21), Toys Regulations SOR/2011-17 and its amendment SOR/2024-217 (Section 23) - Total Lead and Mercury in surface coating	PASS
25	Canada Consumer Product Safety Act (S.C. 2010, c. 21), Toys Regulations SOR/2011-17 and its amendment SOR/2024-217 (Section 23) - Soluble Heavy Metal in surface coating	PASS
26	Canada Consumer Product Safety Act (S.C. 2010, c. 21), Toys Regulations SOR/2011-17 and its amendment SOR/2024-217 (Section 27) - Total Lead and Mercury in plastic materials	NOT APPLICABLE
27	Canada Consumer Product Safety Act (S.C. 2010, c. 21), Toys Regulations SOR/2011-17 and its amendment SOR/2024-217 (Section 27) - Soluble heavy metal in plastic materials	NOT APPLICABLE
28	Canada Consumer Product Safety Act (S.C. 2010, c. 21), Consumer Products Containing Lead (Contact with Mouth) Regulations (SOR/2018-83) - Total Lead Content	PASS
29	Canada Consumer Product Safety Act (S.C. 2010, c. 21), Phthalates Regulations (SOR/2016-188) - Phthalates	PASS



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Test Requested		Conclusion
30	Canada Consumer Product Safety Act-Surface Coating Materials Regulations SOR/2016-193 and its amendment SOR/2022-122 - Total Lead in surface coating materials	PASS
31	Canadian Environmental Protection Act (S.C. 1999, c. 33), Mercury Regulations (SOR/2024-109 amending SOR/2014-254) - Mercury (Hg)	PASS

Remark 1: Item no. BUN-NB83137-NB95371 was not conducted EN 71-2: 2020, EN 71-2: 2020+A1:2025, BS EN 71-2: 2020 & BS EN 71-2: 2020+A1:2025 as per client's requirement.

Remark 2:

*The test result was based on the client provided documents.

Requirements	Report No.	Testing Lab	Issue Date
ASTM F963 Clause 4.3.6 (USP 61/62)	GZF26-0046034-01	SGS	Aug 14, 2026

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Li Ning, Rily
Authorized Signatory

Wang Juan, Zoe
Authorized Signatory



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EUROPEAN STANDARD ON SAFETY OF TOYS
EN 71-1:2014 + A1:2018 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

AS SPECIFIED IN EN 71-1:2014 + A1:2018 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

Clauses relevant to the item:

Clause	Test Item	Result
4	General Requirements	
4.1	Material Cleanliness	Pass
4.2	Assembly	Pass
4.3	Flexible Plastic Sheeting	NA
4.4	Toy Bags	NA
4.5	Glass	NA
4.6	Expanding Materials	NA
4.7	Edges	Pass
4.8	Points And Metallic Wires	Pass
4.9	Protruding Parts	NA
4.10	Parts Moving Against Each Other	
4.10.1	Folding And Sliding Mechanisms	NA
4.10.2	Driving Mechanisms	NA
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth-Actuated Toys And Other Toys Intended To Be Put In The Mouth	NA
4.12	Balloons	NA
4.13	Cords Of Toy Kites And Other Flying Toys	NA
4.14	Enclosures	
4.14.1	Toys Which A Child Can Enter	NA
4.14.2	Masks And Helmets	Pass
4.15	Toys Intended To Bear The Mass Of A Child	NA
4.16	Heavy Immobile Toys	NA
4.17	Projectiles	NA
4.18	Aquatic Toys And Inflatable Toys	NA
4.19	Percussion Caps Specifically Designed For Use In Toys And Toys Using Percussion Caps	NA
4.20	Acoustics	Pass



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Clause	Test Item	Result
4.21	Toys Containing A Non-Electrical Heat Source	NA
4.22	Small Balls	NA
4.23	Magnets	NA
4.24	Yo-Yo Balls	NA
4.25	Toys Attached To Food	NA
4.26	Toy Disguise Costumes	NA
4.27	Flying Toys	NA
5	Toys Intended For Children Under 36 Months	
5.1	General Requirements	NA
5.2	Soft-Filled Toys And Soft-Filled Parts Of A Toy	NA
5.3	Plastic Sheeting	NA
5.4	Cords, Chains And Electrical Cables In Toys	NA
5.5	Liquid-Filled Toys	NA
5.6	Speed Limitation Of Electrically-Driven Ride-On Toys	NA
5.7	Glass And Porcelain	NA
5.8	Shape And Size Of Certain Toys	NA
5.9	Toys Comprising Monofilament Fibres	NA
5.10	Small Balls	NA
5.11	Play Figures	NA
5.12	Hemispheric-Shaped Toys	NA
5.13	Suction Cups	NA
5.14	Straps Intended To Be Worn Fully Or Partially Around The Neck	NA
5.15	Sledges With Cords For Pulling	NA
6	Packaging	Pass
7	Warnings, Markings And Instructions For Use	
7.1	General	Pass



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Clause	Test Item	Result
	Note: Please note that for assessing the visibility and legibility of warnings, CEN has introduced good practice in the informative Annex A.33 by addressing the following aspects: a) Emphasising the warning b) Contrast, background and colours c) Reflecting surfaces and obscuring material d) Font type e) Font size f) Logical direction of text For more details, see EN 71-1. Only English warnings were checked for the clause 7. According to 2009/48/EC, warnings and safety instructions shall be written in a language or languages easily understood by consumers.	
7.2	Toys Not Intended For Children Under 36 Months	Pass
7.3	Latex Balloons	NA
7.4	Aquatic Toys	NA
7.5	Functional Toys	NA
7.6	Hazardous Sharp Functional Edges And Points	NA
7.7	Projectile Toys	NA
7.8	Imitation Protective Masks And Helmets	Pass
7.9	Toy Kites	NA
7.10	Roller Skates, Inline Skates, Skateboards And Certain Other Ride-On Toys	NA
7.11	Toys Intended To Be Strung Across A Cradle, Cot, Or Perambulator	NA
7.12	Liquid-Filled Teethers	NA
7.13	Percussion Caps Specifically Designed For Use In Toys	NA
7.14	Acoustics	NA
7.15	Toy Bicycles	NA
7.16	Toys Intended To Bear The Mass Of A Child	NA
7.17	Toys Comprising Monofilament Fibres	NA
7.18	Toy Scooters	NA
7.19	Rocking Horses And Similar Toys	NA
7.20	Magnetic/Electrical Experimental Sets	NA
7.21	Toys With Electrical Cables Exceeding 300 Mm In Length	NA
7.22	Toys With Cords Or Chains Intended For Children Of 18 Months And Over But Under 36 Months	NA
7.23	Toys Intended To Be Attached To A Cradle, Cot Or Perambulator	NA



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Clause	Test Item	Result
7.24	Sledges With Cords For Pulling	NA
7.25	Flying Toys	NA
7.26	Improvised Projectiles	NA

EN 71-1: 2026 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

AS SPECIFIED IN EN 71-1: 2026 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

Clauses relevant to the item:

Clause	Test Item	Result
4	General Requirements	
4.1	Material Cleanliness	Pass
4.2	Assembly	Pass
4.3	Flexible Plastic Sheetting	NA
4.4	Toy Bags	NA
4.5	Glass	NA
4.6	Expanding Materials	NA
4.7	Edges	Pass
4.8	Points And Metallic Wires	Pass
4.9	Protruding Parts	NA
4.10	Parts Moving Against Each Other	
4.10.1	Folding And Sliding Mechanisms	NA
4.10.2	Driving Mechanisms	NA
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth-Actuated Toys And Other Toys Intended To Be Put In The Mouth	NA
4.12	Balloons	NA
4.13	Cords Of Toy Kites And Other Flying Toys	NA
4.14	Enclosures	
4.14.1	Toys Which A Child Can Enter	NA
4.14.2	Toys That Fully Enclose The Head	Pass
4.14.3	Rigid Materials Covering The Face	Pass
4.14.4	Imitation Protective Masks And Helmets	Pass



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Clause	Test Item	Result
4.15	Toys Intended To Bear The Mass Of A Child	NA
4.16	Heavy Immobile Toys	NA
4.17	Projectiles	NA
4.18	Aquatic Toys And Inflatable Toys	NA
4.19	Percussion Caps Specifically Designed For Use In Toys And Toys Using Percussion Caps	NA
4.20	Acoustics	Pass
4.21	Toys Containing A Non-Electrical Heat Source	NA
4.22	Small Balls	NA
4.23	Magnets	NA
4.24	Yo-Yo Balls	NA
4.25	Toys Attached To Food	NA
4.26	Toy Disguise Costumes	NA
4.27	Flying Toys	NA
4.28	Food-imitating Toys	NA
5	Toys Intended For Children Under 36 Months	
5.1	General Requirements	NA
5.2	Soft-Filled Toys And Soft-Filled Parts Of A Toy	NA
5.3	Plastic Sheeting	NA
5.4	Cords, Chains And Electrical Cables In Toys	NA
5.5	Liquid-Filled Toys	NA
5.6	Speed Limitation Of Electrically-Driven Ride-On Toys	NA
5.7	Glass And Porcelain	NA
5.8	Shape And Size Of Certain Toys	NA
5.9	Toys Comprising Of Monofilament Fibres	NA
5.10	Small Balls	NA
5.11	Play Figures	NA
5.12	Hemispheric-Shaped Toys	NA
5.13	Suction Cups	NA
5.14	Straps Intended To Be Worn Fully Or Partially Around The Neck	NA
5.15	Sledges With Cords For Pulling	NA
6	Packaging	Pass
7	Warnings, Markings And Instructions For Use	
7.1	General	Pass



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Clause	Test Item	Result
	Note: Please note that for assessing the visibility and legibility of warnings, CEN has introduced good practice in the informative Annex A.33 by addressing the following aspects: a) Emphasising the warning b) Contrast, background and colours c) Reflecting surfaces and obscuring material d) Font type e) Font size f) Logical direction of text For more details, see EN 71-1. Only English warnings were checked for the clause 7. According to 2009/48/EC, warnings and safety instructions shall be written in a language or languages easily understood by consumers.	
7.2	Toys Not Intended For Children Under 36 Months	Pass
7.3	Latex Balloons	NA
7.4	Aquatic Toys	NA
7.5	Functional Toys	NA
7.6	Hazardous Sharp Functional Edges And Points	NA
7.7	Projectile Toys	NA
7.8	Imitation Protective Masks And Helmets	Pass
7.9	Toy Kites	NA
7.10	Toys Intended To Be Strung Across A Cradle, Cot, Or Perambulator	NA
7.11	Liquid-Filled Teethers	NA
7.12	Percussion Caps Specifically Designed For Use In Toys	NA
7.13	Acoustics	NA
7.14	Toys Intended To Bear The Mass Of A Child	NA
7.15	Toys Comprising Of Monofilament Fibres	NA
7.16	Magnetic/Electrical Experimental Sets	NA
7.17	Toys With Electrical Cables Exceeding 300 Mm In Length	NA
7.18	Toys With Cords Or Chains Intended For Children Of 18 Months And Over But Under 36 Months	NA
7.19	Toys Intended To Be Attached To A Cradle, Cot Or Perambulator	NA
7.20	Sledges With Cords For Pulling	NA
7.21	Flying Toys	NA
7.22	Improvised Projectiles	NA



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EN 71-2: 2020 – Safety of toys – Part 2: Flammability

AS SPECIFIED IN EN 71-2: 2020 – Safety of toys – Part 2: Flammability

Type of gas: Butane gas used in the test burner

Clauses relevant to the item:

Clause	Test Item	Result
4	Requirements	
4.1	General Requirements	Pass
4.2	Toys To Be Worn On The Head	
4.2.2	Beards, Moustaches, Wigs, Etc., Made From Pile Or Flowing Elements Which Protrude 50 mm Or More From The Surface Of The Toy	NA
4.2.3	Beards, Moustaches, Wigs, Etc., Made From Pile Or Flowing Elements Which Protrude Less Than 50 mm From The Surface Of The Toy	NA
4.2.4	Full Or Partial Moulded Head Masks	NA
4.2.5	Toys To Be Worn On The Head (Except Those Covered By 4.2.2 And 4.2.3), Hoods, Headdresses Including Upward Protruding Items And Masks Not Covered By 4.2.4 Which Partially Or Fully Cover The Head (e.g. Fabric And Paperboard Masks, Eye Masks, Face Masks), But Excluding Those Items Covered By 4.3	NA (See Remark)
	Remark: The helmets and headband were not tested since the sample as it appears in the toy cannot constitute a test sample of 610mm x 100mm or 2 equal test samples of 310 mm x 100 mm.	
4.3	Toy Disguise Costumes And Toys Intended To Be Worn By A Child In Play	NA
4.4	Toys Intended To Be Entered By A Child	NA
4.5	Soft-Filled Toys	NA



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EN 71-2: 2020+A1:2025 – Safety of toys – Part 2: Flammability

AS SPECIFIED IN EN 71-2: 2020+A1:2025 – Safety of toys – Part 2: Flammability

Type of gas: Butane gas used in the test burner

Clauses relevant to the item:

Clause	Test Item	Result
4	Requirements	
4.1	General Requirements	Pass
4.2	Toys To Be Worn On The Head	
4.2.2	Beards, Moustaches, Wigs, Etc., Made From Pile Or Flowing Elements Which Protrude 50 mm Or More From The Surface Of The Toy	NA
4.2.3	Beards, Moustaches, Wigs, Etc., Made From Pile Or Flowing Elements Which Protrude Less Than 50 mm From The Surface Of The Toy	NA
4.2.4	Full Or Partial Moulded Head Masks	NA
4.2.5	Toys To Be Worn On The Head (Except Those Covered By 4.2.2 And 4.2.3), Hoods, Headdresses Including Upward Protruding Items And Masks Not Covered By 4.2.4 Which Partially Or Fully Cover The Head (e.g. Fabric And Paperboard Masks, Eye Masks, Face Masks), But Excluding Those Items Covered By 4.3	NA (See Remark)
	Remark: The helmets and headband were not tested since the sample as it appears in the toy cannot constitute a test sample of 610mm x 100mm or 2 equal test samples of 310 mm x 100 mm.	
4.3	Toy Disguise Costumes And Toys Intended To Be Worn By A Child In Play	NA
4.4	Toys Intended To Be Entered By A Child	NA
4.5	Soft-Filled Toys	NA



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LABELING REQUIREMENT (WASHING/CLEANING LABEL, CE MARK, IMPORTER / MANUFACTURER MARK (NAME, ADDRESS), PRODUCT IDENTIFICATION) ACCORDING TO INFORMATIVE ANNEX A.26 AND A.33 OF THE EUROPEAN STANDARD ON SAFETY OF TOYS EN 71-1, AND ALSO ACCORDING TO THE DIRECTIVE 2009/48/EC AND/OR REGULATION (EU) 2019/1020 -SAFETY OF TOYS

Summary table:

For NB70787 & NB95371

	Observation Result	Location
Washing/Cleaning instruction	Not Applicable	----
CE mark	Present	Packaging
Importer's Name & Address	Present	Packaging
Manufacturer's Name & Address	Present	Packaging
Product ID	Present	Toy & Packaging

For others

	Observation Result	Location
Washing/Cleaning instruction	Not Applicable	----
CE mark	Present	Toy & Packaging
Importer's Name & Address	Present	Toy & Packaging
Manufacturer's Name & Address	Present	Toy & Packaging
Product ID	Present	Toy & Packaging

Note:

1. According to Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soak washed. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned. According to the GUIDANCE DOCUMENT ON THE APPLICATION OF DIRECTIVE 2009/48/EC ON THE SAFETY OF TOYS, manufacturer shall not label "surface washing" on textile toys which, under the TSD, need to be soak washable."
2. CE marking should be visible from outside the packaging and its height must be at least 5mm.
3. Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
4. Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.



BRITISH STANDARD ON SAFETY OF TOYS
BS EN 71-1:2014 + A1:2018 – Safety of toys – Part 1: Mechanical and Physical Properties

AS SPECIFIED IN BS EN 71-1:2014+A1:2018 – safety of toys – part 1: mechanical and physical properties

Clauses relevant to the item:

Clause	Test Item	Result
4	General Requirements	
4.1	Material Cleanliness	Pass
4.2	Assembly	Pass
4.3	Flexible Plastic Sheeting	NA
4.4	Toy Bags	NA
4.5	Glass	NA
4.6	Expanding Materials	NA
4.7	Edges	Pass
4.8	Points And Metallic Wires	Pass
4.9	Protruding Parts	NA
4.10	Parts Moving Against Each Other	
4.10.1	Folding And Sliding Mechanisms	NA
4.10.2	Driving Mechanisms	NA
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth-Actuated Toys And Other Toys Intended To Be Put In The Mouth	NA
4.12	Balloons	NA
4.13	Cords Of Toy Kites And Other Flying Toys	NA
4.14	Enclosures	
4.14.1	Toys Which A Child Can Enter	NA
4.14.2	Masks And Helmets	Pass
4.15	Toys Intended To Bear The Mass Of A Child	NA
4.16	Heavy Immobile Toys	NA
4.17	Projectiles	NA
4.18	Aquatic Toys And Inflatable Toys	NA
4.19	Percussion Caps Specifically Designed For Use In Toys And Toys Using Percussion Caps	NA
4.20	Acoustics	Pass



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Clause	Test Item	Result
4.21	Toys Containing A Non-Electrical Heat Source	NA
4.22	Small Balls	NA
4.23	Magnets	NA
4.24	Yo-Yo Balls	NA
4.25	Toys Attached To Food	NA
4.26	Toy Disguise Costumes	NA
4.27	Flying Toys	NA
5	Toys Intended For Children Under 36 Months	
5.1	General Requirements	NA
5.2	Soft-Filled Toys And Soft-Filled Parts Of A Toy	NA
5.3	Plastic Sheeting	NA
5.4	Cords, Chains And Electrical Cables In Toys	NA
5.5	Liquid-Filled Toys	NA
5.6	Speed Limitation Of Electrically-Driven Ride-On Toys	NA
5.7	Glass And Porcelain	NA
5.8	Shape And Size Of Certain Toys	NA
5.9	Toys Comprising Monofilament Fibres	NA
5.10	Small Balls	NA
5.11	Play Figures	NA
5.12	Hemispheric-Shaped Toys	NA
5.13	Suction Cups	NA
5.14	Straps Intended To Be Worn Fully Or Partially Around The Neck	NA
5.15	Sledges With Cords For Pulling	NA
6	Packaging	Pass
7	Warnings, Markings And Instructions For Use	
7.1	General	Pass



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Clause	Test Item	Result
	Note: Please note that for assessing the visibility and legibility of warnings, CEN has introduced good practice in the informative Annex A.33 by addressing the following aspects: a) Emphasising the warning b) Contrast, background and colours c) Reflecting surfaces and obscuring material d) Font type e) Font size f) Logical direction of text For more details, see BS EN 71-1.	
7.2	Toys Not Intended For Children Under 36 Months	Pass
7.3	Latex Balloons	NA
7.4	Aquatic Toys	NA
7.5	Functional Toys	NA
7.6	Hazardous Sharp Functional Edges And Points	NA
7.7	Projectile Toys	NA
7.8	Imitation Protective Masks And Helmets	Pass
7.9	Toy Kites	NA
7.10	Roller Skates, Inline Skates, Skateboards And Certain Other Ride-On Toys	NA
7.11	Toys Intended To Be Strung Across A Cradle, Cot, Or Perambulator	NA
7.12	Liquid-Filled Teethers	NA
7.13	Percussion Caps Specifically Designed For Use In Toys	NA
7.14	Acoustics	NA
7.15	Toy Bicycles	NA
7.16	Toys Intended To Bear The Mass Of A Child	NA
7.17	Toys Comprising Monofilament Fibres	NA
7.18	Toy Scooters	NA
7.19	Rocking Horses And Similar Toys	NA
7.20	Magnetic/Electrical Experimental Sets	NA
7.21	Toys With Electrical Cables Exceeding 300 Mm In Length	NA
7.22	Toys With Cords Or Chains Intended For Children Of 18 Months And Over But Under 36 Months	NA
7.23	Toys Intended To Be Attached To A Cradle, Cot Or Perambulator	NA
7.24	Sledges With Cords For Pulling	NA
7.25	Flying Toys	NA
7.26	Improvised Projectiles	NA



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BS EN 71-1: 2026 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

AS SPECIFIED IN BS EN 71-1: 2026 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

Clauses relevant to the item:

Clause	Test Item	Result
4	General Requirements	
4.1	Material Cleanliness	Pass
4.2	Assembly	Pass
4.3	Flexible Plastic Sheeting	NA
4.4	Toy Bags	NA
4.5	Glass	NA
4.6	Expanding Materials	NA
4.7	Edges	Pass
4.8	Points And Metallic Wires	Pass
4.9	Protruding Parts	NA
4.10	Parts Moving Against Each Other	
4.10.1	Folding And Sliding Mechanisms	NA
4.10.2	Driving Mechanisms	NA
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth-Actuated Toys And Other Toys Intended To Be Put In The Mouth	NA
4.12	Balloons	NA
4.13	Cords Of Toy Kites And Other Flying Toys	NA
4.14	Enclosures	
4.14.1	Toys Which A Child Can Enter	NA
4.14.2	Toys That Fully Enclose The Head	Pass
4.14.3	Rigid Materials Covering The Face	Pass
4.14.4	Imitation Protective Masks And Helmets	Pass
4.15	Toys Intended To Bear The Mass Of A Child	NA
4.16	Heavy Immobile Toys	NA
4.17	Projectiles	NA
4.18	Aquatic Toys And Inflatable Toys	NA
4.19	Percussion Caps Specifically Designed For Use In Toys And Toys Using Percussion Caps	NA



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Clause	Test Item	Result
4.20	Acoustics	Pass
4.21	Toys Containing A Non-Electrical Heat Source	NA
4.22	Small Balls	NA
4.23	Magnets	NA
4.24	Yo-Yo Balls	NA
4.25	Toys Attached To Food	NA
4.26	Toy Disguise Costumes	NA
4.27	Flying Toys	NA
4.28	Food-imitating Toys	NA
5	Toys Intended For Children Under 36 Months	
5.1	General Requirements	NA
5.2	Soft-Filled Toys And Soft-Filled Parts Of A Toy	NA
5.3	Plastic Sheeting	NA
5.4	Cords, Chains And Electrical Cables In Toys	NA
5.5	Liquid-Filled Toys	NA
5.6	Speed Limitation Of Electrically-Driven Ride-On Toys	NA
5.7	Glass And Porcelain	NA
5.8	Shape And Size Of Certain Toys	NA
5.9	Toys Comprising Of Monofilament Fibres	NA
5.10	Small Balls	NA
5.11	Play Figures	NA
5.12	Hemispheric-Shaped Toys	NA
5.13	Suction Cups	NA
5.14	Straps Intended To Be Worn Fully Or Partially Around The Neck	NA
5.15	Sledges With Cords For Pulling	NA
6	Packaging	Pass
7	Warnings, Markings And Instructions For Use	
7.1	General	Pass



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Clause	Test Item	Result
	Note: Please note that for assessing the visibility and legibility of warnings, CEN has introduced good practice in the informative Annex A.33 by addressing the following aspects: a) Emphasising the warning b) Contrast, background and colours c) Reflecting surfaces and obscuring material d) Font type e) Font size f) Logical direction of text For more details, see BS EN 71-1.	
7.2	Toys Not Intended For Children Under 36 Months	Pass
7.3	Latex Balloons	NA
7.4	Aquatic Toys	NA
7.5	Functional Toys	NA
7.6	Hazardous Sharp Functional Edges And Points	NA
7.7	Projectile Toys	NA
7.8	Imitation Protective Masks And Helmets	Pass
7.9	Toy Kites	NA
7.10	Toys Intended To Be Strung Across A Cradle, Cot, Or Perambulator	NA
7.11	Liquid-Filled Teethers	NA
7.12	Percussion Caps Specifically Designed For Use In Toys	NA
7.13	Acoustics	NA
7.14	Toys Intended To Bear The Mass Of A Child	NA
7.15	Toys Comprising Of Monofilament Fibres	NA
7.16	Magnetic/Electrical Experimental Sets	NA
7.17	Toys With Electrical Cables Exceeding 300 Mm In Length	NA
7.18	Toys With Cords Or Chains Intended For Children Of 18 Months And Over But Under 36 Months	NA
7.19	Toys Intended To Be Attached To A Cradle, Cot Or Perambulator	NA
7.20	Sledges With Cords For Pulling	NA
7.21	Flying Toys	NA
7.22	Improvised Projectiles	NA



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BS EN 71-2: 2020 – Safety of toys – Part 2: Flammability

AS SPECIFIED IN BS EN 71-2: 2020 – Safety of toys – Part 2: Flammability

Type of gas: Butane gas used in the test burner

Clauses relevant to the item:

Clause	Test Item	Result
4	Requirements	
4.1	General Requirements	Pass
4.2	Toys To Be Worn On The Head	
4.2.2	Beards, Moustaches, Wigs, Etc., Made From Pile Or Flowing Elements Which Protrude 50 mm Or More From The Surface Of The Toy	NA
4.2.3	Beards, Moustaches, Wigs, Etc., Made From Pile Or Flowing Elements Which Protrude Less Than 50 mm From The Surface Of The Toy	NA
4.2.4	Full Or Partial Moulded Head Masks	NA
4.2.5	Toys To Be Worn On The Head (Except Those Covered By 4.2.2 And 4.2.3), Hoods, Headdresses Including Upward Protruding Items And Masks Not Covered By 4.2.4 Which Partially Or Fully Cover The Head (e.g. Fabric And Paperboard Masks, Eye Masks, Face Masks), But Excluding Those Items Covered By 4.3	NA (See Remark)
	Remark: The helmets and headband were not tested since the sample as it appears in the toy cannot constitute a test sample of 610mm x 100mm or 2 equal test samples of 310 mm x 100 mm.	
4.3	Toy Disguise Costumes And Toys Intended To Be Worn By A Child In Play	NA
4.4	Toys Intended To Be Entered By A Child	NA
4.5	Soft-Filled Toys	NA



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BS EN 71-2: 2020+A1:2025 – Safety of toys – Part 2: Flammability

AS SPECIFIED IN BS EN 71-2: 2020+A1:2025 – Safety of toys – Part 2: Flammability

Type of gas: Butane gas used in the test burner

Clauses relevant to the item:

Clause	Test Item	Result
4	Requirements	
4.1	General Requirements	Pass
4.2	Toys To Be Worn On The Head	
4.2.2	Beards, Moustaches, Wigs, Etc., Made From Pile Or Flowing Elements Which Protrude 50 mm Or More From The Surface Of The Toy	NA
4.2.3	Beards, Moustaches, Wigs, Etc., Made From Pile Or Flowing Elements Which Protrude Less Than 50 mm From The Surface Of The Toy	NA
4.2.4	Full Or Partial Moulded Head Masks	NA
4.2.5	Toys To Be Worn On The Head (Except Those Covered By 4.2.2 And 4.2.3), Hoods, Headdresses Including Upward Protruding Items And Masks Not Covered By 4.2.4 Which Partially Or Fully Cover The Head (e.g. Fabric And Paperboard Masks, Eye Masks, Face Masks), But Excluding Those Items Covered By 4.3	NA (See Remark)
	Remark: The helmets and headband were not tested since the sample as it appears in the toy cannot constitute a test sample of 610mm x 100mm or 2 equal test samples of 310 mm x 100 mm.	
4.3	Toy Disguise Costumes And Toys Intended To Be Worn By A Child In Play	NA
4.4	Toys Intended To Be Entered By A Child	NA
4.5	Soft-Filled Toys	NA



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LABELING REQUIREMENT (WASHING/CLEANING LABEL, UKCA MARKING OR CE MARKING, IMPORTER/MANUFACTURER NAME AND ADDRESS, PRODUCT IDENTIFICATION) FOR THE MARKET OF GREAT BRITAIN (ENGLAND, WALES AND SCOTLAND) WITH REFERENCE TO THE TOYS (SAFETY) REGULATIONS 2011

Summary table:

For NB70787 & NB95371

	Observation Result	Location
Washing/Cleaning instruction	Not Applicable	----
UKCA marking or CE marking	Present	Packaging
Importer's Name & Address	Present	Packaging
Manufacturer's Name & Address	Present	Packaging
Product ID	Present	Toy & Packaging

For others

	Observation Result	Location
Washing/Cleaning instruction	Not Applicable	----
UKCA marking or CE marking	Present	Toy & Packaging
Importer's Name & Address	Present	Toy & Packaging
Manufacturer's Name & Address	Present	Toy & Packaging
Product ID	Present	Toy & Packaging



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Note:

1. A toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soaked.
2. The UKCA marking should be affixed visibly, legibly and indelibly. UKCA marking should be visible from outside the packaging and its height must be at least 5mm.
3. Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
4. Manufacturers must ensure that their toys bear a type, batch, serial or model number or other information enabling the toy to be identified, or where the size or nature of the toy precludes the information from being marked on the toy that the required information is provided on the packaging or in a document accompanying the toy.
5. Until 31 December 2027, the UKCA marking may be affixed to a document accompanying the toy. Where toys are too small or consist of small parts, the UKCA marking may be affixed to a label which is not affixed to the toy or a leaflet which accompanies the toy.
6. Until 31 December 2027, for the importers who imported the toy from an EEA state or Switzerland, are temporarily permitted to indicate their name, registered trade name or registered trade mark and a postal address on the toy's packaging or in a document accompanying the toy, instead of on the toy itself.
7. Until 11pm 31 December 2024, toys conforming to EU rules, including the CE marking, may be placed on the market of Great Britain. And on 24 January 2024, the UK government announced that it intends to legislate to continue recognition of EU requirements, including the CE marking, indefinitely for a range of product regulations in spring 2024.

Toys Regulations SOR/2011-17 of Canada Consumer Product Safety Act (S.C.2010, c. 21). (Including amendments SOR/2012-71, SOR/2016-195, SOR/2016-302, SOR/2018-138, SOR/2022-122 and SOR/2024-217)

AS SPECIFIED IN TOYS REGULATIONS (SOR/2011-17) OF CANADA CONSUMER PRODUCT SAFETY ACT (S.C.2010, c. 21). (INCLUDING AMENDMENTS SOR/2012-71, SOR/2016-195, SOR/2016-302, SOR/2018-138 SOR/2022-122 and SOR/2024-217)

Clauses relevant to the item:

Clause	Test Item	Result
3	General	Pass
4	Packaging	Pass
7	Small Parts	NA
8	Metal Edges	Pass
9	Wire Frames	NA
10	Plastic Edges	Pass
11	Wood	NA
12	Glass	NA



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Clause	Test Item	Result
13	Fasteners	Pass
14	Safety Stops Or Locking Devices	NA
15	Spring-Wound Driving Mechanism	NA
16	Projectiles Components	NA
17	Enclosures	NA
18	Stationary Toys Intended To Bear the Weight Of A Child	NA
19	Noise Level Of Toys	Pass
21	Celluloid Or Cellulose Nitrate	Pass
24	Organic Solvents in Balloon Blowing Kits	NA
25	Toxic substance	NA
26	Corrosive, Irritant Or Sensitizing Substances	NA
28	Doll and Soft Toys – Fastenings	NA
29	Doll, Plush Toys And Soft Toys – Stuffing Material	NA
30	Doll, Plush Toys And Soft Toys – Small Parts	NA
31	Doll, Plush Toys And Soft Toys – Eyes And Noses	NA
32	Flammability of Flat / Raised Fibre Textile Material	Pass (See result page)
33	Flammability of Yarn / Filaments	NA
34	Flammability of Hair / Mane	NA
35	Plant Seeds - Noise	NA
36	Plant Seeds - Stuffing Material	NA
37	Pull and Push Toys	NA
38	Toy Steam Engines	NA
39	Finger Paints	NA
40	Rattles	NA
41	Elastics	NA
42	Yo-yo Type Balls	NA
43	Magnetic Toys	NA
44	Warning for Magnetic Toys	NA
45	Toys Intended To Be Entered By A Child - Exception	NA
46	Toys Intended To Be Entered By A Child - Requirements And Testing	NA
47	Toys Intended To Be Entered By A Child - Warning	NA



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Remark: It is drawn to your attention that all the statement or warning statement which stated in product or its package should be appeared in English and French Bilingual as specified in section 3 of this regulation.

Flammability Test for Flat/Raised Fibre Textile Material (Section 32)

Result: The below sample was tested and passed the requirements.

Tested Components:

- 1.Red fabric
2. Red plush with red unwoven fabric

Requirement:

Flat or raised fibre textile material or natural fur, the time of flame spread should be in excess of 7 Seconds.

ASTM F963-23 Standard Consumer Safety Specification for Toy Safety

AS SPECIFIED IN ASTM F963-23 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clauses relevant to the item:

Clause	Test Item	Result
4	Safety Requirements	
4.1	Material Quality	Pass
4.2	Flammability for solids and soft toys	Pass (See result page)
4.2	Flammability for fabrics	Pass (See result page)
4.3	Toxicology	--
4.3.2	Manufacturing And Packaging Of Food	NA
4.3.4	Cosmetics	NA
4.3.6.3	Cosmetics, Liquids, Pastes, Putties, Gels, Powders, And Items Of Avian Feather Origin	Pass
4.3.6.4	Cosmetics, Liquids, Pastes, Putties, Gels And Powders	NA
4.3.7	Stuffing Materials	NA
4.4	Electrical/Thermal Energy	NA
4.5	Sound-producing Toys	Pass
4.6.1	Small Objects	NA



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Clause	Test Item	Result
4.6.2	Mouth-actuated Toys	NA
4.6.3	Labelling Requirements	NA (See remark)
	Remark: The toy does not contain as-received small part.	
4.7	Accessible Edges	Pass
4.8	Projections	NA
4.9	Accessible Points	Pass
4.10	Wires Or Rods	NA
4.11	Nails And Fasteners	Pass
4.12	Plastic Film	Pass
4.13.1	Folding Mechanisms	NA
4.13.2	Hinge-line Clearance	NA
4.14	Cords, Straps, And Elastics	NA
4.15	Stability And Over-load Requirements	NA
4.16	Confined Spaces	Pass
4.17	Wheels, Tires, And Axles	NA
4.18	Holes, Clearance, And Accessibility Of Mechanisms	Pass
4.19	Simulated Protective Devices	Pass
4.20	Pacifiers	NA
4.21	Projectile Toys	NA
4.22	Teethers And Teething Toys	NA
4.23	Rattles	NA
4.24	Squeeze Toys	NA
4.26	Toys Intended To Be Attached To A Crib Or Playpen	NA
4.27	Stuffed And Beanbag-type Toys	NA
4.28	Stroller And Carriage Toys	NA
4.29	Art Materials	NA
4.30	Toy Gun Marking	NA
4.31	Balloons	NA
4.32	Certain Toys With Nearly Spherical Ends	NA



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Clause	Test Item	Result
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-shaped Objects	NA
4.37	Yo Yo Elastic Tether Toys	NA
4.38	Magnets	NA
4.39	Jaw Entrapment In Handles And Steering Wheels	NA
4.40	Expanding Materials	NA
4.41	Toy Chests	NA
5	Labeling Requirements	
5.1	Federal Government Requirements	--
5.1.1	Specific Labeling Requirement	See Remark
	(Remark: All toys that fall within the definitions and requirements of the U.S. FHSA shall conform to the labeling requirement of that act. For specific requirements, reference 16 CFR 1500.3, 1500.14, 1500.19, 1500.82, 1500.83, 1500.86, 1500.121, 1500.122, 1500.123, 1500.125, 1500.126, 1500.127, 1500.128, 1500.130, 1505.3, and 1511.7. In addition, state labeling requirements may exist.)	
5.1.2	Tracking Label	Pass
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	Pass
5.4	Aquatic Toys	NA
5.5	Crib And Playpen Toys	NA
5.6	Mobiles	NA
5.7	Stroller And Carriage Toys	NA
5.8	Toys Intended To Be Assembled By An Adult	NA
5.9	Simulated Protective Devices	Pass
5.10	Toys With Functional Sharp Edges Or Points	NA
5.11	Small Objects, Small Balls, Marbles, and Balloons	NA



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Clause	Test Item	Result
5.12	Art Materials	NA
5.15	Promotional Materials	Pass
5.16	Magnets	NA
6	Instructional Literature	
6.2	Crib And Playpen Toys	NA
6.3	Mobiles	NA
6.4	Toys Intended To Be Assembled By An Adult	NA
6.7	Toys In Contact With Food	NA
6.8	Toy Chests	NA
6.9	The instructional material for toys which require a manufacturer-supplied specialty or custom tool to access the battery(ies)	NA
7	Producer's Markings	
7.1	Producer's Markings	Pass
7.3	Toy Chests	NA
8	Test Methods	
8.5	Normal Use Testing	Pass
8.7	Impact Test	Pass
8.8	Torque Test	Pass
8.9	Tension Test	Pass
8.10	Compression Test	Pass
8.12	Flexure Test	NA
8.16	Tension Test For Pompoms	NA



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Result Page:

Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample	Burning Rate (inch/sec)
See sample description	0.1

*Burning rate has been rounded to the nearest one tenth of an inch per second.

Requirement:

A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

Flammability Test on Textile Materials

Result: The below samples were tested and passed the requirements.

Tested Components:

1.Red fabric

2. Red plush with red unwoven fabric

	Plain Surface Fabrics	Raised Surface Fabrics
Requirements:	(1) All specimens either did not ignite, ignited but self extinguished, or any combination thereof. (2) Average burn time is 3.5 s or greater.	(1) All specimens either did not ignite, ignited but self extinguished, or any combination thereof. (2) Average burn time is 4 s or greater. (3) Average burn time is less than 4 s and all specimens burn with a surface flash where the intensity of the surface flame is insufficient to ignite, char, or melt the base fabric. (4) Only 1 of 5 specimens ignites and burns in less than 4s and the base fabric does not ignite or fuse, the sample is acceptable. (5) Only 1 of 5 specimens ignites or burns in more than 4s, regardless of whether the base fabric ignites or fuses, the sample is acceptable.



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Test requirement of Title 16, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A.

Clauses relevant to the item:

Clause	Test Item	Result
1500.48 / 1500.49 / 1501	Physical and mechanical tests consisting US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 and US CPSC 16 CFR 1501	Pass
1500.44	US CPSC 16 CFR 1500.44 – METHOD FOR DETERMINING EXTREMELY FLAMMABLE AND FLAMMABLE SOLIDS	Pass

Result data:

AS SPECIFIED IN PHYSICAL AND MECHANICAL TESTS CONSISTING US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 AND US CPSC 16 CFR 1501

	No. of sample tested	Sharp point (16 CFR 1500.48)	Sharp edge (16 CFR 1500.49)	Small part (16 CFR 1501)
As received	17	Pass	Pass	N/A
Impact test (16 CFR 1500.53b)	17	Pass	Pass	N/A
Bite test (16 CFR 1500.52c)	0	N/A	N/A	N/A
Flexure test (16 CFR 1500.53d)	0	N/A	N/A	N/A
Torque test (16 CFR 1500.53e)	17	Pass	Pass	N/A
Tension test (16 CFR 1500.53f)	17	Pass	Pass	N/A
Compression test (16 CFR 1500.53g)	17	Pass	Pass	N/A



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AS SPECIFIED IN US CPSC 16 CFR 1500.44 – METHOD FOR DETERMINING EXTREMELY FLAMMABLE AND FLAMMABLE SOLIDS

Sample	Burning Rate (inch/sec)
See sample description	0.1

*Burning rate has been rounded to the nearest one tenth of an inch per second.

Requirement:

A toy / component is considered a “flammable solid” if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

Tracking label per section 14 [15 U.S.C. § 2063], (a)(5)(A) of the Consumer Product Safety Act, and Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children’s products.

Clause	Test Item	Result
Section 103	Tracking Label (CPSIA 103)	Pass

Result data:

As specified in tracking label per section 14 [15 U.S.C. § 2063], (a)(5)(A) of the Consumer Product Safety Act, and Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children’s products.

- Tracking label on the packaging: Present
- Tracking label on the product: Present

Note: The tracking label assessment was based on the submitted samples and the information provided by the applicant. There was no verification on the validity of such information.



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US CPSC 16 CFR 1263.3 –REQUIREMENTS FOR CONSUMER PRODUCTS CONTAINING BUTTON CELL OR COIN BATTERIES

AS SPECIFIED IN US CPSC 16 CFR 1263.3 –REQUIREMENTS FOR CONSUMER PRODUCTS CONTAINING BUTTON CELL OR COIN BATTERIES

Clause	Description	Result
§ 1263.3	Requirements for consumer products containing button cell or coin batteries	Pass

Result page:

ANSI/UL 4200A-2023 Standard for Products Incorporating Button Batteries or Coin Cell Batteries

Clause	Description	Result
CONSTRUCTION		
5	Products with Button/Coin Cell Batteries	Pass

PERFORMANCE

6	Protection from Ingestion or Aspiration of Button/Coin Cell Batteries	
6.1	General	Pass
6.2	Pre-conditioning	Pass
6.3	Abuse tests	Pass
6.4	Secureness test	N/A

MARKINGS

7	Markings	
7A	General	Pass
7B	Packaging Markings	Pass
7C	Product Markings	Pass
7D	Permanence of Markings	Pass

INSTRUCTIONS

9	General	Pass
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Test Result(s):

Test Part Description:

SN ID	Sample No.	Description
SN1	A	Whole sample
SN2	A1	Golden coating on plastic&soft plastic (Accessory)
SN3	A2	Multi-color coating on paper (Sticker)
SN4	A3	Silvery w/ red coating on plastic (Accessory)
SN5	A4	Bright golden coating on plastic (Accessory)
SN6	A5	Bright silvery coating on plastic (Accessory)
SN7	A6	Dark red w/ deep grey coating on plastic (Handle)
SN8	A7	Grey coating on plastic (Tip)
SN9	A8	Black w/ red, white coating on fabric (Sewn-in label)
SN10	A9	Bronze coating on plastic (Hook)
SN11	A10	Dark golden coating on plastic (Bone)
SN12	A11	Bright yellow coating on plastic (Key loop)
SN13	A12	Black material on PCB (On PCB)
SN14	A13	Silvery metal (Nail)
SN15	A14	Silvery metal (Nail of belt& helmet)
SN16	A15	Silvery metal (Snap button-top)
SN17	A16	Silvery metal (Snap cap-top)
SN18	A17	Silvery metal (Snap cap-bottom)
SN19	A18	Silvery metal (Snap button-bottom)
SN20	A19	Silvery metal (Stud)
SN21	A20	Silvery metal (Screw)
SN22	A21	White fabric (Sewn-in label)
SN23	A22	Red fabric (Spear tassel)
SN24	A23	Black satin (Headband)
SN25	A24	Black woven cord (Elastic band)
SN26	A25	Golden rope (Hat)
SN27	A26	Red velvet w/ red fabric thread (Hat)
SN28	A27	Dark red felt (Hat)
SN29	A28	Brown w/ blue, apricot woven band (Handle)
SN30	A29	Light brown long plush (Handle)
SN31	A30	Deep brown feather (Handle)
SN32	A31	Black woven band (Belt)
SN33	A32	Button cell (LR44)
SN34	A33	Pale white plastic (Headband)
SN35	A34	Black rubber core (Elastic band)
SN36	A35	Translucent dry glue (Hat)
SN37	A36	White foam sheet w/ brown printing, khaki fabric, khaki fabric thread (Belt)
SN38	A37	White paper label (Sticker)
SN39	A38	Laminated paper label w/ multi-color printing (Sticker)
SN40	A42	Light yellow soft plastic (Head)



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SN ID	Sample No.	Description
SN41	A43	Black plastic (Accessory)
SN42	A44	Deep brown plastic (Accessory)
SN43	A45	Chocolate brown plastic (Handle)
SN44	A46	Brown plastic (Accessory)
SN45	A47	Grey plastic (Axe)
SN46	A48	Pale red plastic (Axe)
SN47	A49	Matt-black plastic (Buckle)
SN48	A50	Red plastic (Accessory)
SN49	A51	Transparent blue plastic (Accessory)
SN50	A52	Bronze plastic (Magic Lamp)
SN51	A53	Dark bronze plastic (Key)
SN52	A54	Transparent plastic (Helmet)
SN53	A55	White plastic (Helmet)
SN54	A56	Transparent red plastic (Police light)
SN55	A57	Light red plastic (Switch)
SN56	A58	Dark black plastic (Police light)
SN57	A59	Dull brown coating on plastic (Accessory)
SN58	A60	Silvery metal (Wire)
SN59	A61	White sponge w/ adhesive
SN60	A62	Transparent adhesive plastic tape w/ white paper label, multi-color printing (Labeling)
SN61	A63	Black foam w/ adhesive (Body)
SN62	A6/A4/A5	Dark red w/ deep grey coating on plastic (Handle) w/ Bright golden coating on plastic (Accessory) w/ Bright silvery coating on plastic (Accessory)
SN63	A59/A10/A11	Dull brown coating on plastic (Accessory) w/ Dark golden coating on plastic (Bone) w/ Bright yellow coating on plastic (Key loop)
SN64	A1+A2+A3	Golden coating on plastic&soft plastic (Accessory) + Multi-color coating on paper (Sticker) + Silvery w/ red coating on plastic (Accessory)
SN65	A7+A8+A9	Grey coating on plastic (Tip) + Black w/ red, white coating on fabric (Sewn-in label) + Bronze coating on plastic (Hook)
SN66	A33+A34+A35	Pale white plastic (Headband) + Black rubber core (Elastic band) + Translucent dry glue (Hat)
SN67	A34+A35	Black rubber core (Elastic band) + Translucent dry glue (Hat)
SN68	A36+A42	White foam sheet w/ brown printing, khaki fabric, khaki fabric thread (Belt) + Light yellow soft plastic (Head)
SN69	A37+A38	White paper label (Sticker) + Laminated paper label w/ multi-color printing (Sticker)
SN70	A43+A44+A45	Black plastic (Accessory) + Deep brown plastic (Accessory) + Chocolate brown plastic (Handle)
SN71	A46+A47+A48	Brown plastic (Accessory) + Grey plastic (Axe) + Pale red plastic (Axe)
SN72	A49+A50+A51	Matt-black plastic (Buckle) + Red plastic (Accessory) + Transparent blue plastic (Accessory)



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SN ID	Sample No.	Description
SN73	A52+A53+A54	Bronze plastic (Magic Lamp) + Dark bronze plastic (Key) + Transparent plastic (Helmet)
SN74	A55+A56	White plastic (Helmet) + Transparent red plastic (Police light)
SN75	A57+A58	Light red plastic (Switch) + Dark black plastic (Police light)
SN76	A61+A62	White sponge w/ adhesive + Transparent adhesive plastic tape w/ white paper label, multi-color printing (Labeling)

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-” = Not Regulated

EN71-3: 2019+A2:2024 - Migration of certain elements (Category III:for scrapped-off toy material)

Test Method: With reference to EN 71-3:2019+A2:2024, analysis was performed by ICP-OES, IC-UV or LC-ICP-MS.
Soluble Organic Tin was analyzed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A4
Mass of trace amount	-	mg	-	/	20.0	18.7
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	24	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	25378	319	949
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A5	A6	A7
Mass of trace amount	-	mg	-	26.8	51.1	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A5	A6	A7
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	1684	288	76
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A8	A21	A22
Mass of trace amount	-	mg	-	95.9	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	74	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	357	171	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Unit(s)	MDL	A23	A24	A25
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	903	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A26	A27	A28
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Unit(s)	MDL	A29	A30	A31
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	107	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A36	A37	A38
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	0.030	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	481	80
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A36	A37	A38
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A42	A43	A44
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A45	A46	A47
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A45	A46	A47
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A48	A49	A50
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A51	A52	A53
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A51	A52	A53
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A54	A55	A56
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A57	A58	A59
Mass of trace amount	-	mg	-	42.6	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A57	A58	A59
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	30
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A61	A62	A63
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	58	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	186	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Sum of Soluble Organic Tin	12	mg/kg	-	-	-	ND
Butyl tin(BuT)	-	mg/kg	0.5	-	-	ND
Dibutyl tin(DBT)	-	mg/kg	0.5	-	-	ND
Di-n-octyl tin(DOT)	-	mg/kg	0.5	-	-	ND
Diphenyl tin(DPhT)	-	mg/kg	0.5	-	-	ND
Di-n-Propyltin(DProT)	-	mg/kg	0.5	-	-	ND
Methyl tin(MeT)	-	mg/kg	0.5	-	-	ND
n-Octyl tin(MOT)	-	mg/kg	0.5	-	-	ND
Tributyl tin(TBT)	-	mg/kg	0.5	-	-	ND
Tetrabutyl tin (TeBT)	-	mg/kg	0.5	-	-	ND
Triphenyl tin(TPhT)	-	mg/kg	0.5	-	-	ND
Di-methyl tin(DMT)	-	mg/kg	0.5	-	-	ND
Conclusion				Pass	Pass	Pass

Remark:



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As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for migration of certain elements, as specified in EN 71-3:2019+A2:2024.

A11

Notes:

(1) According to Chapter of 10.1.2 of EN 71-3:2019+A2:2024, Chromium (III) is calculated by the following formula:

Soluble Chromium (III) = Soluble Total Chromium - Soluble Chromium (VI)

(2) *Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019+A2:2024.

(3) /=Not Applicable

BS EN71-3: 2019+A2:2024 - Migration of certain elements (Category III:for scrapped-off toy material)

Test Method: With reference to BS EN 71-3:2019+A2:2024, analysis was performed by ICP-OES, IC-UV or LC-ICP-MS.

Soluble Organic Tin was analyzed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A4
Mass of trace amount	-	mg	-	/	20.0	18.7
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	24	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	25378	319	949
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A5	A6	A7
Mass of trace amount	-	mg	-	26.8	51.1	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A5	A6	A7
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	1684	288	76
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A8	A21	A22
Mass of trace amount	-	mg	-	95.9	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	74	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	357	171	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A23	A24	A25
Mass of trace amount	-	mg	-	/	/	/



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Test Item(s)	Limit	Unit(s)	MDL	A23	A24	A25
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	903	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A26	A27	A28
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Unit(s)	MDL	A29	A30	A31
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	107	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A36	A37	A38
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	0.030	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	481	80
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Unit(s)	MDL	A42	A43	A44
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A45	A46	A47
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A45	A46	A47
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A48	A49	A50
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A51	A52	A53
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A51	A52	A53
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A54	A55	A56
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A57	A58	A59
Mass of trace amount	-	mg	-	42.6	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A57	A58	A59
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	30
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A61	A62	A63
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	58	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	186	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Sum of Soluble Organic Tin	12	mg/kg	-	-	-	ND
Butyl tin(BuT)	-	mg/kg	0.5	-	-	ND
Dibutyl tin(DBT)	-	mg/kg	0.5	-	-	ND
Di-n-octyl tin(DOT)	-	mg/kg	0.5	-	-	ND
Diphenyl tin(DPhT)	-	mg/kg	0.5	-	-	ND
Di-n-Propyltin(DProT)	-	mg/kg	0.5	-	-	ND
Methyl tin(MeT)	-	mg/kg	0.5	-	-	ND
n-Octyl tin(MOT)	-	mg/kg	0.5	-	-	ND
Tributyl tin(TBT)	-	mg/kg	0.5	-	-	ND
Tetrabutyl tin (TeBT)	-	mg/kg	0.5	-	-	ND
Triphenyl tin(TPhT)	-	mg/kg	0.5	-	-	ND
Di-methyl tin(DMT)	-	mg/kg	0.5	-	-	ND
Conclusion				Pass	Pass	Pass

Remark:



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As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for migration of certain elements, as specified in BS EN 71-3:2019+A2:2024.

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Notes:

(1) According to Chapter of 10.1.2 of BS EN 71-3:2019+A2:2024, Chromium (III) is calculated by the following formula:

Soluble Chromium (III) = Soluble Total Chromium - Soluble Chromium (VI)

(2) *Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in BS EN 71-3:2019+A2:2024.

(3) /=Not Applicable

ASTM F963-23, Clause 4.3.5.1 – Soluble Heavy Metal in Paint and Similar Surface-coating Materials

Test Method: With reference to ASTM F 963-23 (Clause 8.3), analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Mass of trace amount	-	mg	-	/	20.0	/
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	17	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Mass of trace amount	-	mg	-	18.7	26.8	51.1
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A9
Mass of trace amount	-	mg	-	/	95.9	86.1
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	6
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A9
Soluble Barium(Ba)	1000	mg/kg	10	13	20	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A10	A59
Mass of trace amount	-	mg	-	20.2	/
Soluble Lead(Pb)	90	mg/kg	5	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND
Conclusion				Pass	Pass

Remark:

As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for certain migration elements, as specified in ASTM F963-23 Clause 8.3.3.6 (2) – Selection of Test Portions A11

Notes:

- (1) Results shown are of the adjusted analytical results.
- (2) ●As received, the test portion of samples from one whole sample are less than 10mg, therefore such components were not tested for certain migration elements, as specified in ASTM F963-23 Clause 8.3.3.6 (2).
- (3) De-waxing was applied on test specimen.

ASTM F963-23, Clause 4.3.5.2 – Soluble Heavy Metal in Substrate Materials

Test Method: With reference to ASTM F 963-23 (Clause 8.3), analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A21	A22	A23
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A21	A22	A23
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A24	A25	A26
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A27	A28	A29
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A30	A31	A33
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A34	A35	A36
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A34	A35	A36
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A37	A38	A42
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A43	A44	A45
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A46	A47	A48
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Unit(s)	MDL	A49	A50	A51
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A52	A53	A54
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A55	A56	A57
Mass of trace amount	-	mg	-	/	/	42.6
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A58	A61	A62
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A58	A61	A62
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A63
Mass of trace amount	-	mg	-	/
Soluble Lead(Pb)	90	mg/kg	5	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND
Soluble Mercury(Hg)	60	mg/kg	5	ND
Soluble Selenium(Se)	500	mg/kg	10	ND
Conclusion				Pass

Notes:

- (1) Results shown are of the adjusted analytical results.
- (2) ●As received, the test portion of samples from one whole sample are less than 10mg, therefore such components were not tested for certain migration elements, as specified in ASTM F963-23 Clause 8.3.3.6 (2).
- (3) De-waxing was applied on test specimen.

ASTM F963-23, Clause 4.3.5.1 – Total Lead in Paint and Similar Surface-coating Materials

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A6/A4/A5	A59/A10/A11	A1+A2+A3
Lead(Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A7+A8+A9
Lead(Pb)	90	mg/kg	20	ND
Conclusion				Pass

ASTM F963-23, Clause 4.3.5.2 – Total Lead in Substrate Materials

Test Method: With reference to CPSC-CH-E1002-08.3. analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A61	A62	A63
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Unit(s)	MDL	A33+A34+A35	A36+A42	A37+A38
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A43+A44+A45	A46+A47+A48	A49+A50+A51
Lead(Pb)	100	mg/kg	20	21	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A52+A53+A54	A55+A56	A57+A58
Lead(Pb)	100	mg/kg	20	ND	ND	65
Conclusion				Pass	Pass	Pass

Test Method: With reference to CPSC-CH-E1001-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A13	A14	A15
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A19	A20	A60
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

ASTM F963-23, Clause 4.3.8 – Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A33	A63	A6/A4/A5
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	ND	ND	0.011
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	0.1	%	0.005	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A33	A63	A6/A4/A5
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%	0.005	ND	ND	ND
Dipentyl Phthalate (DPENP)	131-18-0	0.1	%	0.005	ND	ND	ND
Dihexyl Phthalate (DHEXP/ DnHP)	84-75-3	0.1	%	0.005	ND	ND	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	0.1	%	0.005	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A59/A10/A11	A1+A2+A3	A7+A8+A9
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	0.006	ND	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND	ND	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%	0.005	ND	ND	ND
Dipentyl Phthalate (DPENP)	131-18-0	0.1	%	0.005	ND	ND	ND
Dihexyl Phthalate (DHEXP/ DnHP)	84-75-3	0.1	%	0.005	ND	ND	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	0.1	%	0.005	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A34+A35	A36+A42	A37+A38
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	0.021	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	ND	ND	0.007
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND	ND	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%	0.005	0.007	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A34+A35	A36+A42	A37+A38
Dipentyl Phthalate (DPENP)	131-18-0	0.1	%	0.005	ND	ND	ND
Dihexyl Phthalate (DHEXP/ DnHP)	84-75-3	0.1	%	0.005	ND	ND	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	0.1	%	0.005	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A43+A44+A45	A46+A47+A48	A49+A50+A51
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	ND	ND	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND	ND	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%	0.005	ND	ND	ND
Dipentyl Phthalate (DPENP)	131-18-0	0.1	%	0.005	ND	ND	ND
Dihexyl Phthalate (DHEXP/ DnHP)	84-75-3	0.1	%	0.005	ND	ND	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	0.1	%	0.005	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A52+A53+A54	A55+A56	A57+A58
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND	ND	0.010
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	ND	ND	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND	ND	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%	0.005	ND	ND	ND
Dipentyl Phthalate (DPENP)	131-18-0	0.1	%	0.005	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A52+A53 +A54	A55+A56	A57+A58
Dihexyl Phthalate (DHEXP/ DnHP)	84-75-3	0.1	%	0.005	ND	ND	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	0.1	%	0.005	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A61+A62
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%	0.005	ND
Dipentyl Phthalate (DPENP)	131-18-0	0.1	%	0.005	ND
Dihexyl Phthalate (DHEXP/ DnHP)	84-75-3	0.1	%	0.005	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	0.1	%	0.005	ND
Conclusion					Pass

Part 1303, Title 16, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A.-Lead in paint/similar surface coating material

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A6/A4/A5	A59/A10/ A11	A1+A2+A 3
Lead(Pb)	0.009	%	0.0020	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A7+A8+A 9
Lead(Pb)	0.009	%	0.0020	ND
Conclusion				Pass

15 U.S.C. § 1278a and CPSIA section 101(f) - Lead in paint/similar surface coating material



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Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A6/A4/A5	A59/A10/ A11	A1+A2+A 3
Lead (Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A7+A8+A 9
Lead (Pb)	90	mg/kg	20	ND
Conclusion				Pass

15 U.S.C. § 1278a and CPSIA section 101(a)(2) - Lead in accessible substrate materials

Test Method: With reference to CPSC-CH-E1002-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A61	A62	A63
Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A33+A34 +A35	A36+A42	A37+A38
Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A43+A44 +A45	A46+A47 +A48	A49+A50 +A51
Lead (Pb)	100	mg/kg	20	21	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A52+A53 +A54	A55+A56	A57+A58
Lead (Pb)	100	mg/kg	20	ND	ND	65
Conclusion				Pass	Pass	Pass

Test Method: With reference to CPSC-CH-E1001-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A13	A14	A15
Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Lead (Pb)	100	mg/kg	20	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A19	A20	A60
Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

CONSUMER PRODUCT SAFETY COMMISSION-16 CFR Part 1307, Final Rule, amending CPSIA section 108, Prohibition on Sale of Certain Products Containing Specified Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A33	A63	A6/A4/A5
Benzyl Butyl Phthalate (BBP)	85-68-7	1000	mg/kg	50	ND	ND	ND
Dibutyl Phthalate (DBP)	84-74-2	1000	mg/kg	50	ND	ND	ND
Dicyclohexyl Phthalates (DCHP)	84-61-7	1000	mg/kg	50	ND	ND	ND
Di(2-ethyl hexyl) Phthalate (DEHP)	117-81-7	1000	mg/kg	50	ND	ND	113
Di-n-hexyl Phthalates (DHEXP/ DnHP)	84-75-3	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	84-69-5	1000	mg/kg	50	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	1000	mg/kg	50	ND	ND	ND
Dipentyl Phthalates (DPENP)	131-18-0	1000	mg/kg	50	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A59/A10/A11	A1+A2+A3	A7+A8+A9
Benzyl Butyl Phthalate (BBP)	85-68-7	1000	mg/kg	50	ND	ND	ND
Dibutyl Phthalate (DBP)	84-74-2	1000	mg/kg	50	ND	ND	ND
Dicyclohexyl Phthalates (DCHP)	84-61-7	1000	mg/kg	50	ND	ND	ND
Di(2-ethyl hexyl) Phthalate (DEHP)	117-81-7	1000	mg/kg	50	56	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A59/A10/ A11	A1+A2+A 3	A7+A8+A 9
Di-n-hexyl Phthalates (DHEXP/ DnHP)	84-75-3	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	84-69-5	1000	mg/kg	50	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	1000	mg/kg	50	ND	ND	ND
Dipentyl Phthalates (DPENP)	131-18-0	1000	mg/kg	50	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A34+A35	A36+A42	A37+A38
Benzyl Butyl Phthalate (BBP)	85-68-7	1000	mg/kg	50	ND	ND	ND
Dibutyl Phthalate (DBP)	84-74-2	1000	mg/kg	50	209	ND	ND
Dicyclohexyl Phthalates (DCHP)	84-61-7	1000	mg/kg	50	ND	ND	ND
Di(2-ethyl hexyl) Phthalate (DEHP)	117-81-7	1000	mg/kg	50	ND	ND	68
Di-n-hexyl Phthalates (DHEXP/ DnHP)	84-75-3	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	84-69-5	1000	mg/kg	50	67	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	1000	mg/kg	50	ND	ND	ND
Dipentyl Phthalates (DPENP)	131-18-0	1000	mg/kg	50	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A43+A44 +A45	A46+A47 +A48	A49+A50 +A51
Benzyl Butyl Phthalate (BBP)	85-68-7	1000	mg/kg	50	ND	ND	ND
Dibutyl Phthalate (DBP)	84-74-2	1000	mg/kg	50	ND	ND	ND
Dicyclohexyl Phthalates (DCHP)	84-61-7	1000	mg/kg	50	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A43+A44 +A45	A46+A47 +A48	A49+A50 +A51
Di(2-ethyl hexyl) Phthalate (DEHP)	117-81-7	1000	mg/kg	50	ND	ND	ND
Di-n-hexyl Phthalates (DHEXP/ DnHP)	84-75-3	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	84-69-5	1000	mg/kg	50	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	1000	mg/kg	50	ND	ND	ND
Dipentyl Phthalates (DPENP)	131-18-0	1000	mg/kg	50	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A52+A53 +A54	A55+A56	A57+A58
Benzyl Butyl Phthalate (BBP)	85-68-7	1000	mg/kg	50	ND	ND	ND
Dibutyl Phthalate (DBP)	84-74-2	1000	mg/kg	50	ND	ND	95
Dicyclohexyl Phthalates (DCHP)	84-61-7	1000	mg/kg	50	ND	ND	ND
Di(2-ethyl hexyl) Phthalate (DEHP)	117-81-7	1000	mg/kg	50	ND	ND	ND
Di-n-hexyl Phthalates (DHEXP/ DnHP)	84-75-3	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	84-69-5	1000	mg/kg	50	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	1000	mg/kg	50	ND	ND	ND
Dipentyl Phthalates (DPENP)	131-18-0	1000	mg/kg	50	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A61+A62
Benzyl Butyl Phthalate (BBP)	85-68-7	1000	mg/kg	50	ND
Dibutyl Phthalate (DBP)	84-74-2	1000	mg/kg	50	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A61+A62
Dicyclohexyl Phthalates (DCHP)	84-61-7	1000	mg/kg	50	ND
Di(2-ethyl hexyl) Phthalate (DEHP)	117-81-7	1000	mg/kg	50	ND
Di-n-hexyl Phthalates (DHEXP/ DnHP)	84-75-3	1000	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	84-69-5	1000	mg/kg	50	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	1000	mg/kg	50	ND
Dipentyl Phthalates (DPENP)	131-18-0	1000	mg/kg	50	ND
Conclusion					Pass

US Mercury-Containing Battery Management Act Public Law 104-142(1996)-Mercury (Hg)

Test Method: SGS In House Method, analysis was performed by ICP-OES or Hg-analyzer.

Test Item(s)	Limit	Unit(s)	MDL	A32
Mercury(Hg)	*	mg/cell	0.1	ND
Conclusion				Pass

Notes:

- (1) *Limit shown is with reference to the US Mercury - Containing Battery Management Act Public Law No 104-142 (1996).
- (2) Mercury Reference Information: (requirement of the US Mercury – Containing Battery Management Act Public Law No. 104-142 (1996)).
 - a) No person shall sell, offer for sale, or offer for promotional purposes any alkaline-manganese battery manufactured on or after the date of enactment of this Act, with a mercury content that was intentionally introduced (as distinguished from mercury that may be incidentally present in other materials), except that the limitation on mercury content in alkaline-manganese button cells shall be 25 milligrams of mercury per button cell.
 - b) No person shall sell, offer for sale, or offer for promotional purposes any zinc-carbon battery manufactured on or after the date of enactment of this Act, that contains mercury that was intentionally introduced.
 - c) No person shall sell, offer for sale, or offer for promotional purposes any button cell mercuric-oxide battery for use in the United States on or after the date of enactment of this Act.
 - d) On or after the date of enactment of this Act, no person shall sell, offer for sale, or offer for promotional purposes a mercuric-oxide battery for use in the United States.

Table 1

	MDL	Limit*
Alkaline-manganese button cell	0.1mg/cell	25mg/cell



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Zinc-Carbon battery	0.1mg/kg	ND
Alkaline-manganese battery	0.1mg/kg	ND
Other battery	0.1mg/kg	-

US California Proposition 65 - Lead

Test Method: With reference to CPSC-CH-E1001-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A13	A14	A15
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A19	A20	A60
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Notes:

(1) The limit is referenced to the requirement as stated in County of ACSC Case no. RG-07-356892 and Public Law (Consumer Product Safety Improvement Act of 2008, CPSIA).

(2) The reference limit applied in testing is based on particular California Proposition 65 settlements that are most similar to the tested product in the opinion of the lab. The testing in this report does not reflect a user's actual exposure to the tested chemical.

A manufacturer or retailer that is not named in the referenced settlement is not bound by that settlement, and may choose to comply with California Proposition 65 by clearly informing the consumer of potential exposure.

Test Method: With reference to CPSC-CH-E1002-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A61	A62	A63
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A33+A34 +A35	A36+A42	A37+A38
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A43+A44 +A45	A46+A47 +A48	A49+A50 +A51
Lead(Pb)	100	mg/kg	20	21	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A43+A44 +A45	A46+A47 +A48	A49+A50 +A51
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A52+A53 +A54	A55+A56	A57+A58
Lead(Pb)	100	mg/kg	20	ND	ND	65
Conclusion				Pass	Pass	Pass

Notes:

(1) The limit is referenced to the requirement as stated in County of ACSC Case no. RG-07-356892 and Public Law (Consumer Product Safety Improvement Act of 2008, CPSIA).

(2) The reference limit applied in testing is based on particular California Proposition 65 settlements that are most similar to the tested product in the opinion of the lab. The testing in this report does not reflect a user's actual exposure to the tested chemical.

A manufacturer or retailer that is not named in the referenced settlement is not bound by that settlement, and may choose to comply with California Proposition 65 by clearly informing the consumer of potential exposure.

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A6/A4/A5	A59/A10/ A11	A1+A2+A 3
Lead(Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A7+A8+A 9
Lead(Pb)	90	mg/kg	20	ND
Conclusion				Pass

Notes:

(1) The limit is referenced to the requirement as stated in County of ACSC Case no. RG-07-356892 and Public Law (Consumer Product Safety Improvement Act of 2008, CPSIA).

(2) The reference limit applied in testing is based on particular California Proposition 65 settlements that are most similar to the tested product in the opinion of the lab. The testing in this report does not reflect a user's actual exposure to the tested chemical.

A manufacturer or retailer that is not named in the referenced settlement is not bound by that settlement, and may choose to comply with California Proposition 65 by clearly informing the consumer of potential exposure.

US California Proposition 65- Phthalate

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A33	A63	A6/A4/A5
Benzyl Butyl Phthalate(BBP)	85-68-7	0.1	%	0.005	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND	ND	ND
Dibutyl Phthalate(DBP)	84-74-2	0.1	%	0.005	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	0.1	%	0.005	ND	ND	0.011
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	0.1	%	0.005	ND	ND	ND
Di-n-Hexyl Phthalate(DnHP)	84-75-3	0.1	%	0.005	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A59/A10/A11	A1+A2+A3	A7+A8+A9
Benzyl Butyl Phthalate(BBP)	85-68-7	0.1	%	0.005	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND	ND	ND
Dibutyl Phthalate(DBP)	84-74-2	0.1	%	0.005	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	0.1	%	0.005	0.006	ND	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	0.1	%	0.005	ND	ND	ND
Di-n-Hexyl Phthalate(DnHP)	84-75-3	0.1	%	0.005	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A34+A35	A36+A42	A37+A38
Benzyl Butyl Phthalate(BBP)	85-68-7	0.1	%	0.005	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND	ND	ND
Dibutyl Phthalate(DBP)	84-74-2	0.1	%	0.005	0.021	ND	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	0.1	%	0.005	ND	ND	0.007
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	0.1	%	0.005	ND	ND	ND
Di-n-Hexyl Phthalate(DnHP)	84-75-3	0.1	%	0.005	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A34+A35	A36+A42	A37+A38
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A43+A44 +A45	A46+A47 +A48	A49+A50 +A51
Benzyl Butyl Phthalate(BBP)	85-68-7	0.1	%	0.005	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND	ND	ND
Dibutyl Phthalate(DBP)	84-74-2	0.1	%	0.005	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	0.1	%	0.005	ND	ND	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	0.1	%	0.005	ND	ND	ND
Di-n-Hexyl Phthalate(DnHP)	84-75-3	0.1	%	0.005	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A52+A53 +A54	A55+A56	A57+A58
Benzyl Butyl Phthalate(BBP)	85-68-7	0.1	%	0.005	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND	ND	ND
Dibutyl Phthalate(DBP)	84-74-2	0.1	%	0.005	ND	ND	0.010
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	0.1	%	0.005	ND	ND	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	0.1	%	0.005	ND	ND	ND
Di-n-Hexyl Phthalate(DnHP)	84-75-3	0.1	%	0.005	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A61+A62
Benzyl Butyl Phthalate(BBP)	85-68-7	0.1	%	0.005	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND
Dibutyl Phthalate(DBP)	84-74-2	0.1	%	0.005	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	0.1	%	0.005	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A61+A62
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	0.1	%	0.005	ND
Di-n-Hexyl Phthalate(DnHP)	84-75-3	0.1	%	0.005	ND
Conclusion					Pass

Notes:

- (1) The limit is referenced to the requirement as stated in ACSC Case No.BG07350969 (May 08).
 (2) The reference limit applied in testing is based on particular California Proposition 65 settlements that are most similar to the tested product in the opinion of the lab. The testing in this report does not reflect a user's actual exposure to the tested chemical.
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Canada Consumer Product Safety Act (S.C. 2010, c. 21), Toys Regulations SOR/2011-17 and its amendment SOR/2024-217 (Section 23) - Total Lead and Mercury in surface coating

Test Method: With reference to CPSC-CH-E1002-08.3 / CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A62	A6/A4/A5	A59/A10/A11
Lead(Pb)	90	mg/kg	20	ND	ND	ND
Mercury(Hg)	10	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A1+A2+A3	A7+A8+A9	A37+A38
Lead(Pb)	90	mg/kg	20	ND	ND	ND
Mercury(Hg)	10	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Canada Consumer Product Safety Act (S.C. 2010, c. 21), Toys Regulations SOR/2011-17 and its amendment SOR/2024-217 (Section 23) - Soluble Heavy Metal in surface coating

Test Method: With reference to ASTM F 963-23 (Clause 8.3), analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Soluble Antimony(Sb)	1000	mg/kg	50	ND	ND	ND
Soluble Arsenic(As)	1000	mg/kg	50	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	1000	mg/kg	50	ND	ND	ND
Soluble Selenium(Se)	1000	mg/kg	50	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Soluble Antimony(Sb)	1000	mg/kg	50	ND	ND	ND
Soluble Arsenic(As)	1000	mg/kg	50	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	1000	mg/kg	50	ND	ND	ND
Soluble Selenium(Se)	1000	mg/kg	50	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A9
Soluble Antimony(Sb)	1000	mg/kg	50	ND	ND	ND
Soluble Arsenic(As)	1000	mg/kg	50	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	1000	mg/kg	50	ND	ND	ND
Soluble Selenium(Se)	1000	mg/kg	50	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A10	A11	A37
Soluble Antimony(Sb)	1000	mg/kg	50	ND	ND	ND
Soluble Arsenic(As)	1000	mg/kg	50	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	1000	mg/kg	50	ND	ND	ND
Soluble Selenium(Se)	1000	mg/kg	50	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A38	A59
Soluble Antimony(Sb)	1000	mg/kg	50	ND	ND
Soluble Arsenic(As)	1000	mg/kg	50	ND	ND
Soluble Barium(Ba)	1000	mg/kg	50	ND	ND
Soluble Cadmium(Cd)	1000	mg/kg	50	ND	ND
Soluble Selenium(Se)	1000	mg/kg	50	ND	ND
Conclusion				Pass	Pass

Notes:

(1) Results shown are of the adjusted analytical results.

Canada Consumer Product Safety Act (S.C. 2010, c. 21), Toys Regulations SOR/2011-17 and its amendment SOR/2024-217 (Section 27) - Total Lead and Mercury in plastic materials

Test Method: With reference to CPSC-CH-E1002-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A
Lead(Pb)	90	mg/kg	20	N/A
Mercury(Hg)	10	mg/kg	10	N/A



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Test Item(s)	Limit	Unit(s)	MDL	A
Conclusion				Not Applicable

Canada Consumer Product Safety Act (S.C. 2010, c. 21), Toys Regulations SOR/2011-17 and its amendment SOR/2024-217 (Section 27) - Soluble heavy metal in plastic materials

Test Method: With reference to ASTM F 963-23 (Clause 8.3), analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A
Soluble Antimony(Sb)	60	mg/kg	5	N/A
Soluble Arsenic(As)	25	mg/kg	2.5	N/A
Soluble Barium(Ba)	1000	mg/kg	10	N/A
Soluble Cadmium(Cd)	75	mg/kg	5	N/A
Soluble Chromium(Cr)	60	mg/kg	5	N/A
Soluble Selenium(Se)	500	mg/kg	10	N/A
Conclusion				Not Applicable

Notes:

(1) Results shown are of the adjusted analytical results.

Canada Consumer Product Safety Act (S.C. 2010, c. 21), Consumer Products Containing Lead (Contact with Mouth) Regulations (SOR/2018-83) - Total Lead Content

Test Method: With reference to CPSC-CH-E1001-08.3 / CPSC-CH-E1002-08.3 / CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A13	A14	A15
Lead(Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Lead(Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A19	A20	A60
Lead(Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A61	A62	A63
Lead(Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Unit(s)	MDL	A6/A4/A5	A59/A10/A11	A1+A2+A3
Lead(Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A7+A8+A9	A36+A42	A37+A38
Lead(Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A43+A44+A45	A46+A47+A48	A49+A50+A51
Lead(Pb)	90	mg/kg	20	21	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A52+A53+A54	A55+A56	A57+A58
Lead(Pb)	90	mg/kg	20	ND	ND	65
Conclusion				Pass	Pass	Pass

Canada Consumer Product Safety Act (S.C. 2010, c. 21), Phthalates Regulations (SOR/2016-188) - Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A63	A6/A4/A5	A59/A10/A11
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	ND	0.011	0.006
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND	ND	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	0.1	%	0.005	ND	ND	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	0.1	%	0.005	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1+A2+A3	A7+A8+A9	A36+A42
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1+A2+A3	A7+A8+A9	A36+A42
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	ND	ND	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND	ND	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	0.1	%	0.005	ND	ND	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	0.1	%	0.005	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A37+A38	A61+A62
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	0.007	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	0.1	%	0.005	ND	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	0.1	%	0.005	ND	ND
Conclusion					Pass	Pass

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A12	A34+A35
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND	0.021
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	ND	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND	ND
Conclusion					Pass	Pass

Canada Consumer Product Safety Act-Surface Coating Materials Regulations SOR/2016-193 and its amendment SOR/2022-122 - Total Lead in surface coating materials

Test Method: With reference to CPSC-CH-E1002-08.3 / CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.



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Test Item(s)	Limit	Unit(s)	MDL	A62	A6/A4/A5	A59/A10/A11
Lead(Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A1+A2+A3	A7+A8+A9	A37+A38
Lead(Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Canadian Environmental Protection Act (S.C. 1999, c. 33), Mercury Regulations (SOR/2024-109 amending SOR/2014-254) - Mercury (Hg)

Test Method: SGS In House Method, analysis was performed by ICP-OES or AAS or Hg-analyzer.

Test Item(s)	Limit	Unit(s)	MDL	A32
Mercury(Hg)	5	mg/kg	1	ND
Conclusion				Pass

Remark:

The test results A63 (Except ASTM F963-23, Clause 4.3.5.2 – Total Lead in Substrate Materials, ASTM F963-23, Clause 4.3.8 – Phthalates, 15 U.S.C. § 1278a and CPSIA section 101(a)(2) - Lead in accessible substrate materials, US California Proposition 65 - Lead, Canada Consumer Product Safety Act (S.C. 2010, c. 21), Consumer Products Containing Lead (Contact with Mouth) Regulations (SOR/2018-83) - Total Lead Content test result) are taken from report SZHL2607036110TY(A11).

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Sample Picture (As received)







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