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国际互认  
检测  
TESTING  
CNAS L2929

**Test Report**

No.: T52510290165XM

Date: MAY 19, 2025

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SHANTOU JIACHENG PLASTIC TOYS CO.,LTD

HONGLI INDUSTRIAL ZONE, EAST OF JINHONG HIGHWAY, LIANXIA TOWN, CHENGHAI DISTRICT, SHANTOU CITY

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

TOY SERIES

Item No. : 668-05, 668-25, 668-26, 668-68, 668-69, 668-72, 668-73, 668-74, 668-75, 668-76, 668-77, 668-78, 668-79, 668-80, 668-81, 668-82, 668-83, 668-84, 668-85, 668-86, 668-87, 668-88, 668-89, 668-90, 668-91, 668-92, 668-93, 668-94, 668-95, 668-98, 668-99, 668-100, 668-101, 668-111, 668-112, 668-113, 668-114, 668-115, 668-116, 668-117, 668-118, 668-119, 668-120, 668-121, 668-122, 668-123, 668-124, 668-125, 668-126, 668-127, 668-128, 668-129, 668-130, 668-131, 668-132, 668-133, 668-134, 668-135, 668-136, 668-137, 668-138, 668-139, 668-140, 668-141, 668-142, 668-143, 668-144, 668-145, 777-8, 668-47, 668-146, 668-147, 668-148, 668-149, 668-150, 668-151, 668-152, 668-153, 668-154, 668-155

Labeled Age Grading : 3+

Requested Age Grading : 3+

\*\*\*\*\*

AGE GROUP ASSESSED BY SGS AS PER AGE GUIDELINE : OVER 2 YEARS FOR IMITATION FOOD, OVER 3 YEARS FOR OTHERS

AGE GROUP APPLIED IN TESTING : OVER 2 YEARS FOR IMITATION FOOD, OVER 3 YEARS FOR OTHERS

Sample Receiving Date : APR 07, 2025

Last Submission Sample Date : MAY 16, 2025

Further Information Date : MAY 16, 2025

Testing Period : APR 07, 2025 TO MAY 19, 2025



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SGS-CSTC Technical Services Co., Ltd.  
Shenzhen Branch Testing Center Hardlines

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Member of the SGS Group (SGS SA)

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

Test Requested	Conclusion
1. With reference to the European standard on Safety of toys:-	--
EN 71-1:2014+A1:2018 – Safety of toys – Part 1: Mechanical and Physical Properties	PASS
EN 71-2: 2020 – 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 71-1:2014+A1:2018 and the Directive 2009/48/EC-Safety of toys	SEE RESULT
2. With reference to the British Standard on Safety of toys:-	--
BS EN 71-1:2014+A1:2018 – Safety of toys – Part 1: Mechanical and Physical Properties	PASS
BS EN 71-2:2020 – 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	SEE RESULT



Test Requested		Conclusion
3.	EN 71-3:2019+A1:2021- Migration of certain elements (Category III:for scrapped-off toy material)	PASS
4.	BS EN71-3: 2019+ A2:2024 - Migration of certain elements (Category III:for scrapped-off toy material)	PASS
5.	EN 71-3: 2019+ A2:2024 - Migration of certain elements (Category III:for scrapped-off toy material)	PASS
6.	BS EN 71-3:2019+A1:2021- Migration of certain elements (Category III:for scrapped-off toy material)	PASS

Remark : #The result indicated was based on re-testing on new sample submitted by applicant.

\*\*\*\*\* 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 Testing Center





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 Laboratory Manager  
 CNAS Approved Signatories



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**Results:**

**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	Description	Result
4	General Requirements	
4.1	Materials cleanliness	PASS
4.2	Assembly	PASS#
4.3	Flexible Plastic Sheeting	N/A
4.4	Toy Bags	N/A
4.5	Glass	N/A
4.6	Expanding Materials	N/A
4.7	Edges	PASS
4.8	Points and Metallic Wires	PASS
4.9	Protruding Parts	PASS
4.10	Parts moving against each other:	
4.10.1	Folding and sliding mechanisms	N/A
4.10.2	Driving Mechanisms	PASS
4.10.3	Hinges	N/A (See Remark)
	Remark: Not applicable to hinge arrangement in which any part of it weighs less than 250g.	
4.10.4	Springs	PASS
4.11	Mouth Actuated Toys and toys intended to be put in the mouth	PASS
4.12	Balloons	N/A
4.13	Cords of Toy Kites and Other Flying Toys	N/A
4.14	Enclosures	
4.14.1	Toys Which A Child Can Enter	N/A
4.14.2	Masks and Helmets	PASS
4.15	Toys intended to bear the mass of a child	
4.15.1	Toys propelled by the child or by other means	N/A
4.15.2	Toy bicycles	N/A
4.15.3	Rocking horses and similar toys	N/A
4.15.4	Toys not propelled by a child	N/A



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Clause	Description	Result
4.15.5	Toy scooters	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectile toys	N/A
4.18	Aquatic toys and inflatable toys	N/A
4.19	Percussion Caps Specifically Designed for Use in Toys	N/A
4.20	Acoustics	PASS
4.21	Toys containing a non-electrical heat source	N/A
4.22	Small balls	N/A
4.23	Magnets	N/A
4.24	Yoyo balls	N/A
4.25	Toys attached to food	N/A
4.26	Toy Disguise Costumes	N/A
4.27	Flying toys	N/A
5	Toys intended for Children under 36 months	
5.1	General Requirements	
5.1a	Small part requirement on toys & removable Components (Test method 8.2)	PASS <sup>#</sup>
5.1b	Torque test (Test method 8.3)	PASS <sup>#</sup>
5.1b	Tension test (Test method 8.4)	PASS <sup>#</sup>
5.1b	Drop test (Test method 8.5)	PASS
5.1b	Tip over test (Test method 8.6)	N/A
5.1b	Impact test (Test method 8.7)	PASS
5.1b	Compression test (Test method 8.8)	PASS
5.1b	Sharp edge (Test method 8.11)	PASS
5.1b	Sharp point (Test method 8.12)	PASS
5.1b	Tension test for magnet (Test method 8.34)	N/A
5.1c	Potential hazardous metal points and wires with a cross section of 2mm or less	N/A
5.1d	Large and bulky toys	N/A
5.1e	Glued wooden toys and toys with glued on plastic decals	N/A
5.1f	The casing of toys intended for children too young to sit up unaided	N/A
5.1g	Foam toys and toys containing accessible foam components	N/A
5.2	Soft-filled toys and soft-filled parts of a toy	N/A
5.3	Plastic Sheeting	N/A
5.4	Cords, chains and electrical cables in toys	N/A
5.5	Liquid Filled Toys	N/A
5.6	Speed limitation of electrically-driven ride-on toys	N/A
5.7	Glass and Porcelain	N/A
5.8	Shape and Size of certain Toys	N/A



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Clause	Description	Result
5.9	Toys comprising Monofilament Fibres	N/A
5.10	Small balls	PASS
5.11	Play figures	N/A
5.12	Hemispheric shaped toys	N/A
5.13	Suction cups	N/A
5.14	Straps intended to be worn fully or partially around the neck	N/A
5.15	Sledges with cords for pulling	N/A
6	Packaging	PASS
7	Warnings, markings and instructions for use	
	Only English warnings were checked for the clause 7.	
7.1	General	PASS#
	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.	
7.2	Toys not intended for children under 36 months	PASS (See Remark)
	Remark: The toy contains small parts. It is acceptable because appropriate warning is found on packaging.	
7.3	Latex Balloon	N/A
7.4	Aquatic Toys	N/A
7.5	Functional Toys	N/A
7.6	Hazardous sharp Functional Edges and Points	N/A
7.7	Projectile toys	N/A
7.8	Imitation protective masks and helmets	N/A
7.9	Toy Kites	N/A
7.10	Roller skates, inline skates and toy skateboards and certain other ride-on toys	N/A
7.11	Toys intended to be strung across a cradle, cot, or perambulator	N/A
7.12	Liquid filled teethingers	N/A
7.13	Percussion caps specifically designed for use in toys	N/A
7.14	Acoustics	N/A



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Clause	Description	Result
7.15	Toy bicycles	N/A
7.16	Toys intended to bear the mass of a child	N/A
7.17	Toys comprising monofilament fibres	N/A
7.18	Toy scooters	N/A
7.19	Rocking horses and similar toys	N/A
7.20	Magnetic/ electrical experimental set	N/A
7.21	Toys with electrical cables exceeding 300 mm in length	N/A
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	N/A
7.23	Toys intended to be attached to a cradle, cot or perambulator	N/A
7.24	Sledges with cords for pulling	N/A
7.25	Flying toys	N/A
7.26	Improvised projectiles	N/A
	According to 2009/48/EC, warnings and safety instructions shall be written in a language or languages easily understood by consumers.	

**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	Description	Result
4.1	General requirements	PASS
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	N/A
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	N/A
4.2.4	Full or partial moulded head masks	N/A
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	N/A
4.3	Toy disguise costumes and toys intended to be worn by a child in play	N/A
4.4	Toys intended to be entered by a child	N/A
4.5	Soft-filled toys	N/A



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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 71-1:2014+A1:2018 AND THE DIRECTIVE 2009/48/EC-SAFETY OF TOYS**

Summary table:

	Observation Result	Location
Washing/Cleaning instruction	Not Applicable	----
CE mark	Present	Packaging
Importer's Name & Address	Absent. See note 3	----
Manufacturer's Name & Address	Absent. See note 3	----
Product ID	Present	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.



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**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	Description	Result
4	General Requirements	
4.1	Materials cleanliness	PASS
4.2	Assembly	PASS#
4.3	Flexible Plastic Sheeting	N/A
4.4	Toy Bags	N/A
4.5	Glass	N/A
4.6	Expanding Materials	N/A
4.7	Edges	PASS
4.8	Points and Metallic Wires	PASS
4.9	Protruding Parts	PASS
4.10	Parts moving against each other:	
4.10.1	Folding and sliding mechanisms	N/A
4.10.2	Driving Mechanisms	PASS
4.10.3	Hinges	N/A (See Remark)
	Remark: Not applicable to hinge arrangement in which any part of it weighs less than 250g.	
4.10.4	Springs	PASS
4.11	Mouth Actuated Toys and toys intended to be put in the mouth	PASS
4.12	Balloons	N/A
4.13	Cords of Toy Kites and Other Flying Toys	N/A
4.14	Enclosures	
4.14.1	Toys Which A Child Can Enter	N/A
4.14.2	Masks and Helmets	PASS
4.15	Toys intended to bear the mass of a child	
4.15.1	Toys propelled by the child or by other means	N/A
4.15.2	Toy bicycles	N/A
4.15.3	Rocking horses and similar toys	N/A
4.15.4	Toys not propelled by a child	N/A



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Clause	Description	Result
4.15.5	Toy scooters	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectile toys	N/A
4.18	Aquatic toys and inflatable toys	N/A
4.19	Percussion Caps Specifically Designed for Use in Toys	N/A
4.20	Acoustics	PASS
4.21	Toys containing a non-electrical heat source	N/A
4.22	Small balls	N/A
4.23	Magnets	N/A
4.24	Yoyo balls	N/A
4.25	Toys attached to food	N/A
4.26	Toy Disguise Costumes	N/A
4.27	Flying toys	N/A
5	Toys intended for Children under 36 months	
5.1	General Requirements	
5.1a	Small part requirement on toys & removable Components (Test method 8.2)	PASS <sup>#</sup>
5.1b	Torque test (Test method 8.3)	PASS <sup>#</sup>
5.1b	Tension test (Test method 8.4)	PASS <sup>#</sup>
5.1b	Drop test (Test method 8.5)	PASS
5.1b	Tip over test (Test method 8.6)	N/A
5.1b	Impact test (Test method 8.7)	PASS
5.1b	Compression test (Test method 8.8)	PASS
5.1b	Sharp edge (Test method 8.11)	PASS
5.1b	Sharp point (Test method 8.12)	PASS
5.1b	Tension test for magnet (Test method 8.34)	N/A
5.1c	Potential hazardous metal points and wires with a cross section of 2mm or less	N/A
5.1d	Large and bulky toys	N/A
5.1e	Glued wooden toys and toys with glued on plastic decals	N/A
5.1f	The casing of toys intended for children too young to sit up unaided	N/A
5.1g	Foam toys and toys containing accessible foam components	N/A
5.2	Soft-filled toys and soft-filled parts of a toy	N/A
5.3	Plastic Sheeting	N/A
5.4	Cords, chains and electrical cables in toys	N/A
5.5	Liquid Filled Toys	N/A
5.6	Speed limitation of electrically-driven ride-on toys	N/A
5.7	Glass and Porcelain	N/A
5.8	Shape and Size of certain Toys	N/A



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Clause	Description	Result
5.9	Toys comprising Monofilament Fibres	N/A
5.10	Small balls	PASS
5.11	Play figures	N/A
5.12	Hemispheric shaped toys	N/A
5.13	Suction cups	N/A
5.14	Straps intended to be worn fully or partially around the neck	N/A
5.15	Sledges with cords for pulling	N/A
6	Packaging	PASS
7	Warnings, markings and instructions for use	
7.1	General	PASS#
	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.	
7.2	Toys not intended for children under 36 months	PASS (See Remark)
	Remark: The toy contains small parts. It is acceptable because appropriate warning is found on packaging.	
7.3	Latex Balloon	N/A
7.4	Aquatic Toys	N/A
7.5	Functional Toys	N/A
7.6	Hazardous sharp Functional Edges and Points	N/A
7.7	Projectile toys	N/A
7.8	Imitation protective masks and helmets	N/A
7.9	Toy Kites	N/A
7.10	Roller skates, inline skates and toy skateboards and certain other ride-on toys	N/A
7.11	Toys intended to be strung across a cradle, cot, or perambulator	N/A
7.12	Liquid filled teethingers	N/A
7.13	Percussion caps specifically designed for use in toys	N/A
7.14	Acoustics	N/A
7.15	Toy bicycles	N/A
7.16	Toys intended to bear the mass of a child	N/A



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Clause	Description	Result
7.17	Toys comprising monofilament fibres	N/A
7.18	Toy scooters	N/A
7.19	Rocking horses and similar toys	N/A
7.20	Magnetic/ electrical experimental set	N/A
7.21	Toys with electrical cables exceeding 300 mm in length	N/A
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	N/A
7.23	Toys intended to be attached to a cradle, cot or perambulator	N/A
7.24	Sledges with cords for pulling	N/A
7.25	Flying toys	N/A
7.26	Improvised projectiles	N/A

**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	Description	Result
4.1	General requirements	PASS
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	N/A
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	N/A
4.2.4	Full or partial moulded head masks	N/A
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	N/A
4.3	Toy disguise costumes and toys intended to be worn by a child in play	N/A
4.4	Toys intended to be entered by a child	N/A
4.5	Soft-filled toys	N/A



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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:

	Observation Result	Location
Washing/Cleaning instruction	Not Applicable	----
UKCA marking or CE marking	Present	Packaging
Importer's Name & Address	Absent. See note 3	----
Manufacturer's Name & Address	Absent. See note 3	----
Product ID	Present	Packaging

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.



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**Chemical Test Result(s):**

**Test Part Description:**

SN ID	Sample No.	SGS Sample ID	Description
SN1	A41	XMN25-0006971-0001.C041	Off-green plastic
SN2	A42	XMN25-0006971-0001.C042	Off-black plastic
SN3	A43	XMN25-0006971-0001.C043	Off-yellow plastic
SN4	A44	XMN25-0006971-0001.C044	Pale white plastic
SN5	A45	XMN25-0006971-0001.C045	Off-pink plastic
SN6	A46	XMN25-0006971-0001.C046	Off-gray plastic
SN7	A47	XMN25-0006971-0001.C047	Light brown plastic
SN8	A48	XMN25-0006971-0001.C048	Off-cyan plastic
SN9	A49	XMN25-0006971-0001.C049	Off-orange plastic
SN10	A50	XMN25-0006971-0001.C050	Off-red plastic
SN11	A51	XMN25-0006971-0001.C051	Off-blue plastic
SN12	A52	XMN25-0006971-0001.C052	Off-purple plastic
SN13	A53	XMN25-0006971-0001.C053	Dull pink plastic
SN14	A54	XMN25-0006971-0001.C054	Off-transparent plastic
SN15	A55	XMN25-0006971-0001.C055	Off-transparent red plastic
SN16	A56	XMN25-0006971-0001.C056	Bright white plastic
SN17	A57	XMN25-0006971-0001.C057	Off-white soft plastic
SN18	A58	XMN25-0006971-0001.C058	Off-nude plastic
SN19	A59	XMN25-0006971-0001.C059	Dark brown plastic
SN20	A60	XMN25-0006971-0001.C060	White surfaced brown paper card w/ multi-color coating
SN21	A61	XMN25-0006971-0001.C061	Laminated off-white paper label w/ multi-color printing
SN22	A62	XMN25-0006971-0001.C062	Gray fabric
SN23	A63	XMN25-0006971-0001.C063	Off-brown w/ white coating on plastic
SN24	A64	XMN25-0006971-0001.C064	Off-white coating on plastic
SN25	A65	XMN25-0006971-0001.C065	Off-blue coating on plastic

**Remarks:**

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



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**EN 71-3:2019+A1:2021- Migration of certain elements (Category III:for scrapped-off toy material)**

**Test Method:** With reference to EN 71-3:2019+A1:2021, analysis was performed by ICP-OES, IC-UV, LC-ICP-MS or IC-ICP-MS.  
Soluble Organic Tin was analyzed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A41	A42	A43
Mass of trace amount	-	mg	-	/	/	/
Soluble Aluminum(Al)	28130	mg/kg	50	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 Boron(B)	15000	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 Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>



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# Test Report

No.: T52510290165XM

Date: MAY 19, 2025

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Test Item(s)	Limit	Unit(s)	MDL	A44	A45	A46
Mass of trace amount	-	mg	-	/	/	/
Soluble Aluminum(Al)	28130	mg/kg	50	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 Boron(B)	15000	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 Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A47	A48	A49
Mass of trace amount	-	mg	-	/	/	/
Soluble Aluminum(Al)	28130	mg/kg	50	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 Boron(B)	15000	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 Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>



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Test Item(s)	Limit	Unit(s)	MDL	A50	A51	A52
Mass of trace amount	-	mg	-	/	/	/
Soluble Aluminum(Al)	28130	mg/kg	50	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 Boron(B)	15000	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 Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A53	A54	A55
Mass of trace amount	-	mg	-	/	/	/
Soluble Aluminum(Al)	28130	mg/kg	50	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 Boron(B)	15000	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 Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>



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Test Item(s)	Limit	Unit(s)	MDL	A56	A57	A58
Mass of trace amount	-	mg	-	/	/	/
Soluble Aluminum(Al)	28130	mg/kg	50	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 Boron(B)	15000	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 Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A59	A60	A61
Mass of trace amount	-	mg	-	/	/	/
Soluble Aluminum(Al)	28130	mg/kg	50	ND	319	309
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 Boron(B)	15000	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 Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>



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Test Item(s)	Limit	Unit(s)	MDL	A62	A63
Mass of trace amount	-	mg	-	/	18.6
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	17	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND
Soluble Lead(Pb)	23	mg/kg	5	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>

**Notes:**

- (1) According to Chapter of 10.1.2 of EN 71-3:2019+A1:2021, 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+A1:2021.
- (3) ●As received, the test portion A64,A65 are less than 10 mg, therefore such components were not tested for migration of certain elements, as specified in the EN 71-3:2019+A1:2021.



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**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	A41	A42	A43
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	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>



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Test Item(s)	Limit	Unit(s)	MDL	A44	A45	A46
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	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A47	A48	A49
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	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>





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Test Item(s)	Limit	Unit(s)	MDL	A50	A51	A52
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	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A53	A54	A55
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	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>



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# Test Report

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Test Item(s)	Limit	Unit(s)	MDL	A56	A57	A58
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	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A59	A60	A61
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	319	309
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>



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Test Item(s)	Limit	Unit(s)	MDL	A62	A63
Mass of trace amount	-	mg	-	/	18.6
Soluble Lead(Pb)	23	mg/kg	5	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	17	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>

**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
- (4) ●As received, the test portion A64,A65 are less than 10 mg, therefore such components were not tested for migration of certain elements, as specified in the BS EN 71-3:2019+ A2:2024.



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**EN 71-3: 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	A41	A42	A43
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	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>



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Inspection & Testing Services  
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Test Item(s)	Limit	Unit(s)	MDL	A44	A45	A46
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	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A47	A48	A49
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	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>



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Test Item(s)	Limit	Unit(s)	MDL	A50	A51	A52
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	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A53	A54	A55
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	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>



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Test Item(s)	Limit	Unit(s)	MDL	A56	A57	A58
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	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A59	A60	A61
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	319	309
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>



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Test Item(s)	Limit	Unit(s)	MDL	A62	A63
Mass of trace amount	-	mg	-	/	18.6
Soluble Lead(Pb)	23	mg/kg	5	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	17	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>

**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
- (4) ●As received, the test portion A64,A65 are less than 10 mg, therefore such components were not tested for migration of certain elements, as specified in the EN 71-3:2019+ A2:2024.



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**BS EN 71-3:2019+A1:2021- Migration of certain elements (Category III:for scrapped-off toy material)**

**Test Method:** With reference to BS EN 71-3:2019+A1:2021, analysis was performed by ICP-MS, IC-UV or LC-ICP-MS.  
Soluble Organic Tin was analyzed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A41	A42	A43
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	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>



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Test Item(s)	Limit	Unit(s)	MDL	A44	A45	A46
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	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A47	A48	A49
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	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>



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Test Item(s)	Limit	Unit(s)	MDL	A50	A51	A52
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	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A53	A54	A55
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	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>



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Test Item(s)	Limit	Unit(s)	MDL	A56	A57	A58
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	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A59	A60	A61
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	319	309
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>



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Test Item(s)	Limit	Unit(s)	MDL	A62	A63
Mass of trace amount	-	mg	-	/	18.6
Soluble Lead(Pb)	23	mg/kg	5	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	17	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>

**Notes:**

(1) According to Chapter of 10.1.2 of BS EN 71-3:2019+A1:2021, 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+A1:2021.

(3) /=Not Applicable

(4) ●As received, the test portion A64,A65 are less than 10 mg, therefore such components were not tested for migration of certain elements, as specified in the BS EN 71-3:2019+A1:2021.



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Pic.3



Pic.4



Pic.5



Pic.6



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Pic.7



Pic.8



Pic.9



Pic.10



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Shenzhen Branch Testing Center Hardlines

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Pic.15



Pic.17



Pic.16



Pic.18



Pic.19



Pic.20



Pic.21



Pic.22



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Pic.23



Pic.24



Pic.25



Pic.26



Pic.27



Pic.28



Pic.29



Pic.30



Pic.31



Pic.32



Pic.33



Pic.34



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Pic.35



Pic.36



Pic.37



Pic.38



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Pic.39



Pic.40



Pic.41



Pic.42



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