

Test Report

Report No.: U00807210924419-1E

Query Password: QW5421

Date: Oct. 26, 2021

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Applicant: GUANGDONG YUXING TECHNOLOGY INDUSTRY CO., LTD
Contact information: XIANGNAN INDUSTRIAL ZONE, SHANGKENG, GUANGYI STREET, CHENGHAI DISTRICT, SHANTOU CITY

The following sample(s) was (were) submitted and identified by client as:

Sample Name: Building block series
Sample Description: Please refer to next page(s).
Item No.: Please refer to next page(s).
General Description and function: Building block series
Packaging Provided: Yes
Instruction Manual/Sheet: No
Labeled Age Grading: 8+
Requested Age Grading: 8+
Age Group Applied in Testing: Over 8 years old
Sample No.: U00807210924419-1
Sample Received Date: Sep. 24, 2021
Testing Period: From Sep. 24, 2021 to Oct. 26, 2021
Test Method: Please refer to next page(s).
Test Result: Please refer to next page(s).

Test Request

For compliance with the European Standard on Safety of Toys
EN 71-1:2014+A1: 2018 - Mechanical and Physical Properties
EN 71-2:2020 Flammability
EN 71-3:2019+ A1:2021 - Migration of Certain Elements

Conclusion

PASS
PASS
PASS

Shen Zhen UONE Test Co., LTD.

Prepared by



Ruth Lai

Checked by



Lin Zhu

Approved by



Levent Liang

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Test Result(s):

European Standard on Safety of Toys

EN 71-1:2014+A1: 2018 - Mechanical and Physical Properties

Section	Description	Assessment
4.1	Materials cleanliness	P
4.2	Assembly	NA
4.3	Flexible Plastic Sheeting	NA
4.4	Toy Bags	NA
4.5	Glass	NA
4.6	Expanding Materials	NA
4.7	Edges	P
4.8	Points and Metallic Wires	P
4.9	Protruding Parts	NA
4.10	Parts moving against each other	P
4.10.1	Folding and sliding mechanisms	NA

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Section	Description	Assessment
4.10.2	Driving Mechanisms	P
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	Balloon	NA
4.13	Cords of Toy Kites and Other Flying Toys	NA
4.14	Enclosures	NA
4.14.1	Toys which a child can enter	NA
4.14.2	Masks and helmets	NA
4.15	Toys intended to bear the mass of a child	NA
4.15.1	Toys propelled by a child or by other means	NA
4.15.2	Toy bicycles	NA
4.15.3	Rocking horses and similar toys	NA
4.15.4	Toys not propelled by a child	NA
4.15.5	Toy scooters	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.17.1	General	NA
4.17.2	All projectiles	NA
4.17.2.1	Leading parts	NA
4.17.2.2	Foam shaft projectiles with a suction cup as a leading part	NA
4.17.2.3	Other types of projectile with a suction cup as a leading part	NA
4.17.3	Projectile toys with stored energy	NA
4.17.3.1	Energy limitation	NA
4.17.3.2	Edges	NA
4.17.3.3	Projectiles with a protective cap, cover or tip	NA
4.17.3.4	Impact resistance	NA
4.17.3.5	Improvised projectiles	NA

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Section	Description	Assessment
4.17.4	Certain projectile toys without stored energy	NA
4.17.4.1	Darts	NA
4.17.4.2	Bows and arrows	NA
4.17.4.3	Toy catapults and projectiles propelled by an elastic band	NA
4.17.4.4	Projectile toys without stored energy where the discharge mechanism can store energy, only when held in place by the user	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	NA
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	YoYo-ball	NA
4.25	Toys attached to food	NA
4.26	Toy disguise costumes	NA
4.27	Flying toys	NA
4.27.1	General	NA
4.27.2	Rotors and propellers on flying toys	NA
4.27.3	Rotors and propellers on remote controlled flying toys	NA
5	Toys intended for Children under 36 months	NA
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
5.4.2	Cords and chains in toys intended for children under 18 months	NA
5.4.2.1	Cords and chains with the potential to tangle	NA
5.4.2.2	Two cords or chains with the potential to tangle	NA
5.4.2.3	Separated cords and chains	NA

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Section	Description	Assessment
5.4.2.4	Free length of cords and chains	NA
5.4.3	Cords and chains in toys intended for children of 18 months or over but under 36 months	NA
5.4.3.1	Cords and chains with the potential to tangle	NA
5.4.3.2	Two cords or chains with the potential to tangle	NA
5.4.3.3	Separated cords and chains	NA
5.4.3.4	Free length of cords and chains	NA
5.4.3.5	Cords and chains not suitable for children under 18 months	NA
5.4.4	Fixed loops, tangled loops and nooses	NA
5.4.5	Cords and chains on pull along toys	NA
5.4.6	Electrical cables	NA
5.4.7	Cross-sectional dimension of certain cords	NA
5.4.8	Self-retracting cords	NA
5.4.9	Toys attached to or intended to be strung across a cradle, cot or perambulator	NA
5.4.9.1	Toys intended to be strung across a cradle, cot or perambulator	NA
5.4.9.2	Toys otherwise intended to be attached to a cradle, cot or perambulator	NA
5.5	Liquid Filled Toys	NA
5.6	Speed limitation of electrically driven 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	NA

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Section	Description	Assessment
7	Warning and Instructions for Use	P
7.1	General	P
7.2	Warning not intended for Children under 36 months	P
7.3	Latex Balloon	NA
7.4	Aquatic Toys	NA
7.5	Functional Toys	NA
7.6	Hazardous sharp Functional Edges and Points	NA
7.7	Projectiles toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy Kites	NA
7.10	Roller skates, inline skates and skateboards	NA
7.10.1	Roller skates, inline skates and skateboards	NA
7.10.2	Ride-on toys without a braking device	NA
7.10.3	Electrically-driven ride-on toys	NA
7.10.4	Instructions for use	NA
7.11	Toys intended to be strung across a cradle, cot, or perambulator	NA
7.12	Liquid filled teethingers	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 set	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

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Section	Description	Assessment
7.23	Toys intended to be attached to a cradle, got or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.25.1	Flying toys	NA
7.25.2	Remote controlled flying toys	NA
7.26	Improvised projectiles	NA
8.3	Torque Test	NA
8.4	Tension test	NA
8.5	Drop test	P
8.6	Tip over test	NA
8.7	Impact test	P
8.8	Compression test	NA
8.9	Soaking test	NA
8.13	Flexure test	NA
8.24	Kinetic energy of projectiles	NA
8.34	Tension test for magnets	NA
8.42	Determination of projectile range	NA

Note: P = Pass
NA = Not Applicable.

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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 EN71-1:2014+A1:2018 and the Directive 2009/48/EC-Safety of toys

Summary table:

	On product	On packaging
CE mark	Present	Present
Manufacture's Name & Address	Absent	Absent
Importer's Name & Address	Absent	Absent
Product ID	Absent	Present

CE mark, importer / manufacturer mark (name, address), product identification	See Remark
Remark 1: The manufacturer'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. This requirement applies also to the name and address etc. of any importer.	

EN 71-2:2020 – Flammability

Section	Test Item	Assessment
4.1	General requirements	P
4.2	Toys to be worn on the head	NA
4.2.1	General	NA
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, hoods, headdresses including upward protruding items and masks which partially or fully cover the head	NA
4.3	Toys disguise costumes and toys intended to worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys	NA

Remark: NA = Not Applicable.

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P = Pass

EN 71-3:2019+ A1:2021 - Migration of Certain Elements

Acid extraction method: Refer to EN71-3:2019+ A1:2021

Instruments used for analysis: ICP-OES/ICP-MS/GC-MS/IC/UV-VIS.

Scraped-off toy material -19 heavy elements migration:

Unit: mg/kg

Substance	MDL	Test Result (mg/kg)					Limit in EN 71-3
		1	2	3	4	5	
Aluminium (Al)	5.0	30	22	14	29	23	28130
Antimony (Sb)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	560
Arsenic (As)	0.5	N.D.	N.D.	N.D.	N.D.	N.D.	47
Barium (Ba)	5.0	N.D.	N.D.	N.D.	N.D.	172	18750
Boron (B)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Cadmium (Cd)	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	17
Chromium(III) (Cr ³⁺)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.	460
Chromium(VI) (Cr ⁶⁺)	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	0.053
Cobalt (Co)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	130
Copper (Cu)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	7700
Lead (Pb)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.	23
Manganese (Mn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Mercury (Hg)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	94
Nickel (Ni)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	930
Selenium (Se)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	460
Strontium (Sr)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	56000
Tin (Sn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	180000
Organic tin☆	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	12
Zinc (Zn)	5.0	33	15	N.D.	N.D.	12	46000
Conclusion		PASS	PASS	PASS	PASS	PASS	/

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Substance	MDL	Test Result (mg/kg)					Limit in EN 71-3
		6	7	8	9	10	
Aluminium (Al)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	28130
Antimony (Sb)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	560
Arsenic (As)	0.5	N.D.	N.D.	N.D.	N.D.	N.D.	47
Barium (Ba)	5.0	34	N.D.	N.D.	N.D.	N.D.	18750
Boron (B)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Cadmium (Cd)	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	17
Chromium(III) (Cr ³⁺)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.	460
Chromium(VI) (Cr ⁶⁺)	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	0.053
Cobalt (Co)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	130
Copper (Cu)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	7700
Lead (Pb)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.	23
Manganese (Mn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Mercury (Hg)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	94
Nickel (Ni)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	930
Selenium (Se)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	460
Strontium (Sr)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	56000
Tin (Sn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	180000
Organic tin☆	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	12
Zinc (Zn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	46000
Conclusion		PASS	PASS	PASS	PASS	PASS	/

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Substance	MDL	Test Result (mg/kg)					Limit in EN 71-3
		11	12	13	14	15	
Aluminium (Al)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	28130
Antimony (Sb)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	560
Arsenic (As)	0.5	N.D.	N.D.	N.D.	N.D.	N.D.	47
Barium (Ba)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	18750
Boron (B)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Cadmium (Cd)	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	17
Chromium(III) (Cr ³⁺)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.	460
Chromium(VI) (Cr ⁶⁺)	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	0.053
Cobalt (Co)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	130
Copper (Cu)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	7700
Lead (Pb)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.	23
Manganese (Mn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Mercury (Hg)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	94
Nickel (Ni)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	930
Selenium (Se)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	460
Strontium (Sr)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	56000
Tin (Sn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	180000
Organic tin☆	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	12
Zinc (Zn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	46000
Conclusion		PASS	PASS	PASS	PASS	PASS	/

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Substance	MDL	Test Result (mg/kg)					Limit in EN 71-3
		16	17	18	19	20	
Aluminium (Al)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	28130
Antimony (Sb)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	560
Arsenic (As)	0.5	N.D.	N.D.	N.D.	N.D.	N.D.	47
Barium (Ba)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	18750
Boron (B)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Cadmium (Cd)	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	17
Chromium(III) (Cr ³⁺)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.	460
Chromium(VI) (Cr ⁶⁺)	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	0.053
Cobalt (Co)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	130
Copper (Cu)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	7700
Lead (Pb)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.	23
Manganese (Mn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Mercury (Hg)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	94
Nickel (Ni)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	930
Selenium (Se)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	460
Strontium (Sr)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	56000
Tin (Sn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	180000
Organic tin☆	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	12
Zinc (Zn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	46000
Conclusion		PASS	PASS	PASS	PASS	PASS	/

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Substance	MDL	Test Result (mg/kg)					Limit in EN 71-3
		21	22	23	24	25	
Aluminium (Al)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	28130
Antimony (Sb)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	560
Arsenic (As)	0.5	N.D.	N.D.	N.D.	N.D.	N.D.	47
Barium (Ba)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	18750
Boron (B)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Cadmium (Cd)	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	17
Chromium(III) (Cr ³⁺)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.	460
Chromium(VI) (Cr ⁶⁺)	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	0.053
Cobalt (Co)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	130
Copper (Cu)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	7700
Lead (Pb)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.	23
Manganese (Mn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Mercury (Hg)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	94
Nickel (Ni)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	930
Selenium (Se)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	460
Strontium (Sr)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	56000
Tin (Sn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	180000
Organic tin☆	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	12
Zinc (Zn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	46000
Conclusion		PASS	PASS	PASS	PASS	PASS	/

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Substance	MDL	Test Result (mg/kg)					Limit in EN 71-3
		26	27	28	29	30	
Aluminium (Al)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	28130
Antimony (Sb)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	560
Arsenic (As)	0.5	N.D.	N.D.	N.D.	N.D.	N.D.	47
Barium (Ba)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	18750
Boron (B)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Cadmium (Cd)	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	17
Chromium(III) (Cr ³⁺)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.	460
Chromium(VI) (Cr ⁶⁺)	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	0.053
Cobalt (Co)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	130
Copper (Cu)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	7700
Lead (Pb)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.	23
Manganese (Mn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Mercury (Hg)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	94
Nickel (Ni)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	930
Selenium (Se)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	460
Strontium (Sr)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	56000
Tin (Sn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	180000
Organic tin☆	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	12
Zinc (Zn)	5.0	17	19	20	N.D.	N.D.	46000
Conclusion		PASS	PASS	PASS	PASS	PASS	/

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Substance	MDL	Test Result (mg/kg)					Limit in EN 71-3
		31	32	33	34	35	
Aluminium (Al)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	28130
Antimony (Sb)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	560
Arsenic (As)	0.5	N.D.	N.D.	N.D.	N.D.	N.D.	47
Barium (Ba)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	18750
Boron (B)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Cadmium (Cd)	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	17
Chromium(III) (Cr ³⁺)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.	460
Chromium(VI) (Cr ⁶⁺)	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	0.053
Cobalt (Co)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	130
Copper (Cu)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	7700
Lead (Pb)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.	23
Manganese (Mn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Mercury (Hg)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	94
Nickel (Ni)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	930
Selenium (Se)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	460
Strontium (Sr)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	56000
Tin (Sn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	180000
Organic tin☆	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	12
Zinc (Zn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	46000
Conclusion		PASS	PASS	PASS	PASS	PASS	/

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Substance	MDL	Test Result (mg/kg)					Limit in EN 71-3
		36	37	38	39	40	
Aluminium (Al)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	28130
Antimony (Sb)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	560
Arsenic (As)	0.5	N.D.	N.D.	N.D.	N.D.	N.D.	47
Barium (Ba)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	18750
Boron (B)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Cadmium (Cd)	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	17
Chromium(III) (Cr ³⁺)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.	460
Chromium(VI) (Cr ⁶⁺)	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	0.053
Cobalt (Co)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	130
Copper (Cu)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	7700
Lead (Pb)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.	23
Manganese (Mn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Mercury (Hg)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	94
Nickel (Ni)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	930
Selenium (Se)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	460
Strontium (Sr)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	56000
Tin (Sn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	180000
Organic tin☆	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	12
Zinc (Zn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	46000
Conclusion		PASS	PASS	PASS	PASS	PASS	/

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Substance	MDL	Test Result (mg/kg)					Limit in EN 71-3
		41	42	43	44	45	
Aluminium (Al)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	28130
Antimony (Sb)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	560
Arsenic (As)	0.5	N.D.	N.D.	N.D.	N.D.	N.D.	47
Barium (Ba)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	18750
Boron (B)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Cadmium (Cd)	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	17
Chromium(III) (Cr ³⁺)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.	460
Chromium(VI) (Cr ⁶⁺)	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	0.053
Cobalt (Co)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	130
Copper (Cu)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	7700
Lead (Pb)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.	23
Manganese (Mn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Mercury (Hg)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	94
Nickel (Ni)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	930
Selenium (Se)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	460
Strontium (Sr)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	56000
Tin (Sn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	180000
Organic tin☆	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	12
Zinc (Zn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	46000
Conclusion		PASS	PASS	PASS	PASS	PASS	/

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Substance	MDL	Test Result (mg/kg)					Limit in EN 71-3
		46	47	48	49	50	
Aluminium (Al)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	28130
Antimony (Sb)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	560
Arsenic (As)	0.5	N.D.	N.D.	N.D.	N.D.	N.D.	47
Barium (Ba)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	18750
Boron (B)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Cadmium (Cd)	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	17
Chromium(III) (Cr ³⁺)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.	460
Chromium(VI) (Cr ⁶⁺)	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	0.053
Cobalt (Co)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	130
Copper (Cu)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	7700
Lead (Pb)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.	23
Manganese (Mn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Mercury (Hg)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	94
Nickel (Ni)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	930
Selenium (Se)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	460
Strontium (Sr)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	56000
Tin (Sn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	180000
Organic tin☆	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	12
Zinc (Zn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	46000
Conclusion		PASS	PASS	PASS	PASS	PASS	/

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Substance	MDL	Test Result (mg/kg)					Limit in EN 71-3
		51	52	53	54	55	
Aluminium (Al)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	28130
Antimony (Sb)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	560
Arsenic (As)	0.5	N.D.	N.D.	N.D.	N.D.	N.D.	47
Barium (Ba)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	18750
Boron (B)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Cadmium (Cd)	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	17
Chromium(III) (Cr ³⁺)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.	460
Chromium(VI) (Cr ⁶⁺)	0.02	N.D.	N.D.	N.D.	N.D.	N.D.	0.053
Cobalt (Co)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	130
Copper (Cu)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	7700
Lead (Pb)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.	23
Manganese (Mn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Mercury (Hg)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	94
Nickel (Ni)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	930
Selenium (Se)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	460
Strontium (Sr)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	56000
Tin (Sn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	180000
Organic tin☆	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	12
Zinc (Zn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.	46000
Conclusion		PASS	PASS	PASS	PASS	PASS	/

Note: mg/kg = part per million (ppm).

MDL=method detection limit.

N.D. = Not Detected (< MDL).

Calculated concentration of Chromium(III) (Cr³⁺) and Chromium(VI) (Cr⁶⁺) are based on total Chromium.

“☆” = Organic tin include Methyl tin, Butyltin, Dibutyl tin, Tributyl tin, Tetra-butyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin, Dimethyl tin. The migration of organic tin is expressed as tributyltin.

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As specified by client, only test the designated sample.

No.	Sample Description	Remark
1	Gray-blue coating	/
2	Yellow coating	/
3	Light yellow coating	/
4	Green coating	/
5	Dark green coating	/
6	Rice white coating	/
7	Black coating	/
8	Atrovirens coating	/
9	Silvery electro-plated coating	/
10	Bright electro-plated coating	/
11	Golden electro-plated coating	/
12	Black electro-plated coating	/
13	Dark green electro-plated coating	/
14	Transparent blue plastic	/
15	Transparent plastic	/
16	Transparent red plastic	/
17	Transparent dark blue plastic	/
18	Transparent orange plastic	/
19	Transparent grey plastic	/
20	Dark grey plastic	/
21	Yellow green plastic	/
22	Dark green plastic	/
23	Green plastic	/
24	White plastic	/
25	Red plastic	/
26	White soft plastic	/

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27	Orange soft plastic	/
28	Blue soft plastic	/
29	Red soft plastic	/
30	Grey soft plastic	/
31	Translucent soft plastic	/
32	Black soft plastic	/
33	Laminated white paper with multi-color printing and adhesive	/
34	Grey blue plastic	/
35	Brown plastic	/
36	Pink plastic	/
37	Sky-blue plastic	/
38	Light blue plastic	/
39	Grey plastic	/
40	Bright grey plastic	/
41	Black plastic	/
42	Amaranth plastic	/
43	Ginger plastic	/
44	Light yellow plastic	/
45	Grey brown plastic	/
46	Dark green plastic	/
47	Grey green plastic	/
48	Yellow plastic	/
49	Brick red plastic	/
50	Rose plastic	/
51	Dark blue plastic	/
52	Military blue plastic	/
53	Purple plastic	/
54	Orange plastic	/
55	Beige plastic	/

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Test Report

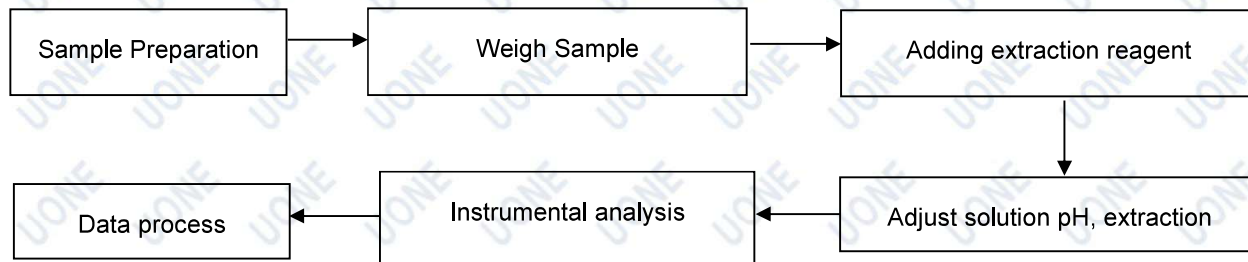
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Test Flow Chart



The photo of the sample



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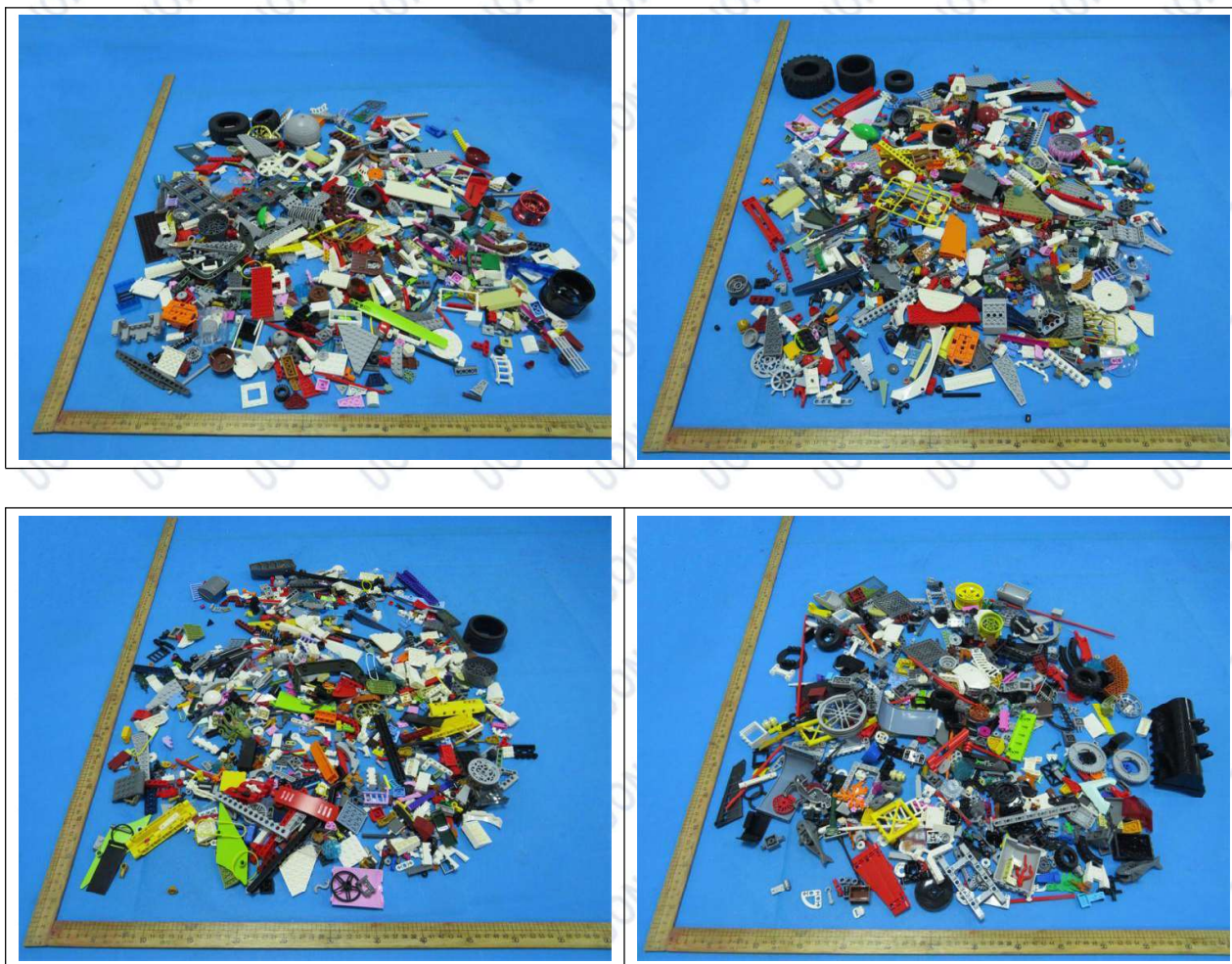
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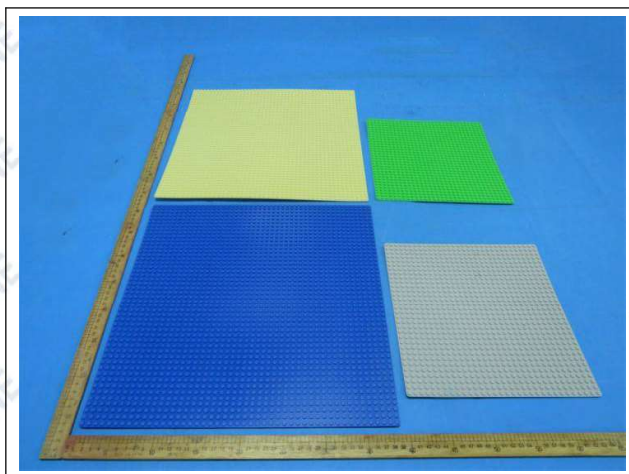
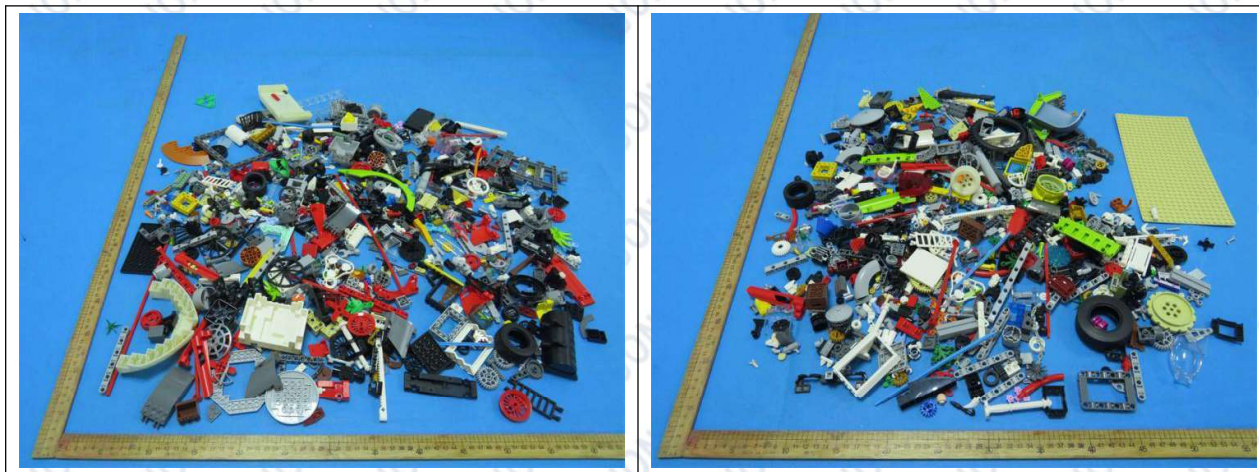
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End of Report

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