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CERTIFICATE OF COMPLIANCE

SGS United Kingdom A UKAS Accredited Test House

Client Name : HAPPY ARTS&CRAFTS(NINGBO)CO.,

LTD HAPE INTERNATIONAL (NINGBO) LTD

Test Report Number : T52210290388TY

Reference Number : WSZ-UK5221290074TY

Item Number : E1056, E1057 **Client Reference Information** : E1056A, E1057A

Sample Description : E1056 CONSTRUCTION DOMINO SET

E1057 ROBOT FACTORY DOMINO

Date of Issue : JUL 15, 2022

Applied Standards Result

1) EN 71-1:2014+A1:2018 – Safety of toys – Part 1: Mechanical and Physical Properties Pass

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

3) Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019 + A1:2021 – Pass

Migration of certain elements

This certificate of compliance must not be used without the attached reference test report.

Qu Ping, Kiky Dept. Manager SGS SHENZHEN SGS United Kingdom Ltd.

Nina Pratt

Senior Technologist

Sept 1

SGS UNITED KINGDOM LTD.

The report attached to this certificate has been checked and approved by SGS United Kingdom Ltd who holds a copy of the relevant documentation in its office. This certificate confirms test results by another SGS entity without SGS UK Ltd having done the testing itself. This Certificate is issued by SGS UK Ltd. under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

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Room 101-801, Pamt 4 & Room 101, Plent 2 & Room 101, Plent 3 & Room 301-501, Plent 3, Jianghao (Banúan) Industrial Plant Ausa, No.501, Jihua Road, Banúan Chmunihy, Banúan Street, Longgang District, Shenzhen, Guangdong, China 518129 www.spsgroup.com.cn 中国广东、深圳市龙岗区坂田街道坂田社区吉华路 430 号江蘇(坂田)工业厂区厂房 4 号 101-901、2 号 101、3 号 101、3 号 301-501 邮编: 518129 t (86-755) 25328888 sgs.china@sgs.com

Pass





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HAPPY ARTS&CRAFTS(NINGBO)CO., LTD HAPE INTERNATIONAL (NINGBO) LTD 9-27 NANHAI ROAD, DAGANG INDUSTRIAL CITY, BEILUN, NINGBO, CHINA PC:315800

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

E1056 CONSTRUCTION DOMINO SET E1057 ROBOT FACTORY DOMINO

Item No. : E1056, E1057

Country of Origin : CHINA
Country of Destination : GLOBAL

Client Reference Information : E1056A, E1057A

Labeled Age Grading : 4Y+
Requested Age Grading : 4Y+

Age Group Assessed by SGS As Per Age : OVFER 4 YEARS

Guideline

Age Group Applied in Testing : OVFER 4 YEARS
Sample Receiving Date : JUL 07, 2022

Testing Period : JUL 07, 2022 TO JUL 15, 2022





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Test	Test Requested					
1.	For compliance with 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				
	Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019 + A1:2021 – Migration of certain elements (All conclusive testing)	PASS				

******* 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

Huang Yao, Lucy Section Head

CNAS Approved Signatories CNAS Approved Signatories

Qu Ping, Kiky Dept. Manager







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Result:

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	<u>on</u>	Result
4	General r	requirements	
4.1	Material of	cleanliness	<u>Pass</u>
4.2	Assembly	/	<u>N/A</u>
4.3	Flexible p	plastics sheeting	N/A
4.4	Toy bags		N/A
4.5	Glass		<u>Pass</u>
4.6	Expandin	ng materials	N/A
4.7	Edges		<u>Pass</u>
4.8	Points an	d metallic wires	<u>Pass</u>
4.9	Protrudin	g parts	N/A
4.10	Parts mo	ving against each other:	
	4.10.1	Folding and sliding mechanisms	N/A
	4.10.2	Driving mechanisms	N/A
	4.10.3	Hinges	N/A
		(Not applicable to products with a hinged part that has a mass less than 250g.)	
	4.10.4	Springs	N/A
4.11	Mouth-ac	ctuated toys and other toys intended to be put in the mouth	N/A
4.12	Balloons		<u>N/A</u>
4.13	Cords of	toy kites and other flying toys	N/A
4.14	Enclosure	es:	
	4.14.1	Toys which a child can enter	<u>N/A</u>
	4.14.2	Masks and helmets	N/A



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Room (1)-191, Plant 4 & Room 101, Plant 2 & Room 101, Plant 2 & Room 101, Plant 3 & Room 101, Plant 4 & Room 101, Plant 2 & Room 101, Plant 2 & Room 101, Plant 2 & Room 101, Plant 3 & Room 101, Plant 4 & Room 101, Plant 2 & Room 101, Plant 3 & Room 101, Plant 4 & Room 101, Plant 3 & R



Test Report No.: T52210290388TY Date: JUL 15, 2022 Page 4 of 20 Description Clause Result 4.15 Toys intended to bear the mass of a child: Toys propelled by the child or by other means N/A 4.15.1 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 4.15.5 Toys scooters N/A 4.16 Heavy immobile toys N/A 4.17 **Projectiles Pass** 4.18 Aquatic toys and inflatable toys N/A Percussion caps specifically designed for use in toys and toys using 4.19 N/A percussion caps 4.20 Acoustics N/A 4.21 Toys containing a non-electrical heat source N/A 4.22 Small balls <u>Pass</u> 4.23 Magnets N/A 4.24 Yoyo balls N/A Toys attached to food 4.25 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: Small part requirement on toys & removable 5.1a Components (Test method 8.2) N/A 5.1b Torque test (Test method 8.3) N/A Tension test (Test method 8.4) N/A Drop test (Test method 8.5) N/A Tip over test (Test method 8.6) <u>N/A</u> Impact test (Test method 8.7) N/A Compression test (Test method 8.8) N/A Sharp edge (Test method 8.11) N/A Sharp point (Test method 8.12) N/A Tension test for magnets (Test method 8.34) N/A 5.1c Potential hazardous metal points and wires with a cross section of N/A 2mm or less 5.1d Large and bulky toys N/A



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Test Report

1631	report	NO 15221029036611	Date. JUL 15, 2022	Page 5 01 20
<u>Clause</u>	Description	<u>on</u>		Result
	5.1e	Glued wooden toys and toys with	glued on plastic decals	N/A
	5.1f	The casing of toys intended for cunaided	hildren too young to sit up	<u>N/A</u>
	5.1g	Foam toys and toys containing a	ccessible foam components	<u>N/A</u>
5.2	Soft-filled	toys and soft-filled parts of a toy		<u>N/A</u>
5.3	Plastic sh	neeting		<u>N/A</u>
5.4	Cords, ch	nains and electrical cable in toys		N/A
5.5	Liquid fille	ed toys		N/A
5.6	Speed lin	nitation of electrically driven toys		N/A
5.7	Glass and	d porcelain		N/A
5.8	Shape ar	nd size of certain toys		N/A
5.9	Toys com	prising monofilament fibres		N/A
5.10	Small bal	ls		<u>N/A</u>
5.11	Play figur	res		<u>N/A</u>
5.12	Hemisphe	eric shaped toys		<u>N/A</u>
5.13	Suction c	ups		<u>N/A</u>
5.14	Straps int	tended to be used fully or partially a	around the neck	<u>N/A</u>
5.15	Sledges v	with cords for pulling		<u>N/A</u>
6	Packagin	g		<u>N/A</u>
7	Warnings	s, markings and instructions for use		
7.1		Requirements		<u>Pass</u>
		ote that for assessing the visibility and good practice in the informative An aspects:		has
		hasising the warning;		
		trast, background and colours;	wiel.	
		ecting surfaces and obscuring mate type;	eriai,	
		size;		
	f) Logi	cal direction of text. details see EN 71-1		
7.2	(Remark:	intended for children under 36 mor The toy contains small parts. It is a s found on packaging.)		Pass te See Remark
7.3	Latex Bal	loon		<u>N/A</u>
7.4	Aquatic to	oys		<u>N/A</u>

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Clause	Description	Result
7.5	Functional Toys	N/A
7.6	Hazardous sharp functional edges and points	<u>N/A</u>
7.7	Projectiles	<u>N/A</u>
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	<u>N/A</u>
7.11	Toys intended to be strung across a cradle, cot, or perambulator	N/A
7.12	Liquid filled teethers	N/A
7.13	Percussion caps specifically designed for use in toys	N/A
7.14	Acoustics	N/A
7.15	Toys bicycle	N/A
7.16	Toys intended to bear the mass of a child	<u>N/A</u>
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 sets	N/A
7.21	Toys with electrical cables exceeding 300 mm in length	<u>N/A</u>
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	<u>N/A</u>
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.

N/A = Not Applicable



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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

Clauses relevant to the item:

<u>Clause</u>	Description	Result
4.1	General requirements	<u>Pass</u>
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	Not Applicable
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	Not Applicable
4.2.4	Full or partial moulded head masks	Not Applicable
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	Not Applicable
4.3	Toy disguise costumes and toys intended to be worn by a child in play	Not Applicable
4.4	Toys intended to be entered by a child	Not Applicable
4.5	Soft filled toys	Not Applicable

Type of gas: Butane gas used in the test burner



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LABELING REQUIREMENT (WASHING/CLEANING INSTRUCTION, CE MARK, IMPORTER / MANUFACTURER NAME AND 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	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.



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<u>Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019+A1:2021 – Migration of certain elements</u>

Category III: Scraped-off toy material

Method: With reference to EN 71-3:2019+A1:2021. Analysis of general elements was performed by ICP-OES / Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV-Vis or LC-ICP-MS / organic tin was analyzed by GC-MS.

Test Item(s)	Result(s)			MDL	Permissible Limit		
Specimen No.			1	2	3		
Mass of trace amount		(mg)	/	/	/		
Soluble Aluminium	(AI)	(mg/kg)	ND	ND	ND	50	28130
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	5	17
Soluble Chromium+	(Cr)	(mg/kg)	ND	ND	ND	1	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	ND	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	ND	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	ND	ND	ND		12
Soluble Zinc	(Zn)	(mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit		
Specimen No.			4	5	6		
Mass of trace amount		(mg)	/	/	/		
Soluble Aluminium	(AI)	(mg/kg)	321	ND	12907	50	28130
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	5	17
Soluble Chromium+	(Cr)	(mg/kg)	ND	ND	ND	1	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese	(Mn)	(mg/kg)	56	ND	ND	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	ND	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	ND	ND	ND		12
Soluble Zinc	(Zn)	(mg/kg)	ND	ND	88	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit		
Specimen No.			7	8	9		
Mass of trace amount		(mg)	/	/	/		
Soluble Aluminium	(AI)	(mg/kg)	ND	ND	ND	50	28130
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	5	17
Soluble Chromium+	(Cr)	(mg/kg)	1	ND	ND	1	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	1	ND	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	ND	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	ND	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	ND	ND	ND		12
Soluble Zinc	(Zn)	(mg/kg)	ND	ND	69	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit		
Specimen No.			10	11	12		
Mass of trace amount		(mg)	/	/	/		
Soluble Aluminium	(AI)	(mg/kg)	ND	ND	ND	50	28130
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	5	17
Soluble Chromium+	(Cr)	(mg/kg)	ND	ND	ND	1	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	ND	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	ND	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	ND	ND	ND		12
Soluble Zinc	(Zn)	(mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit		
Specimen No.			13	14	15		
Mass of trace amount		(mg)	52.9	/	/		
Soluble Aluminium	(AI)	(mg/kg)	ND	ND	ND	50	28130
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	5	17
Soluble Chromium+	(Cr)	(mg/kg)	ND	ND	ND	1	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	ND	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	ND	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	ND	ND	ND		12
Soluble Zinc	(Zn)	(mg/kg)	120	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit		
Specimen No.			16	17	18		
Mass of trace amount		(mg)	/	/	/		
Soluble Aluminium	(AI)	(mg/kg)	183	ND	4114	50	28130
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	5	17
Soluble Chromium+	(Cr)	(mg/kg)	ND	ND	ND	1	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	ND	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	ND	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	ND	ND	ND		12
Soluble Zinc	(Zn)	(mg/kg)	ND	ND	89	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit		
Specimen No.			19	20	21		
Mass of trace amount		(mg)	/	/	79.2		
Soluble Aluminium	(AI)	(mg/kg)	ND	ND	ND	50	28130
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	5	17
Soluble Chromium+	(Cr)	(mg/kg)	ND	ND	ND	1	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	ND	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	307	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	ND	ND	ND		12
Soluble Zinc	(Zn)	(mg/kg)	ND	ND	266	50	46000



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Test Item(s)			Result(s)			MDL	Permissible Limit
Specimen No.			22	23	24		
Mass of trace amount		(mg)	60.8	52.6	/		
Soluble Aluminium	(AI)	(mg/kg)	ND	123	ND	50	28130
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	5	17
Soluble Chromium+	(Cr)	(mg/kg)	ND	ND	ND	1	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	ND	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	ND	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	ND	ND	ND		12
Soluble Zinc	(Zn)	(mg/kg)	324	1762	ND	50	46000



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Test Item(s)			Result(s)			MDL	Permissible Limit
Specimen No.			25	26	27		
Mass of trace amount		(mg)	98.2	/	/		
Soluble Aluminium	(AI)	(mg/kg)	ND	104	ND	50	28130
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	5	17
Soluble Chromium+	(Cr)	(mg/kg)	ND	ND	ND	1	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	ND	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	ND	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	ND	ND	ND		12
Soluble Zinc	(Zn)	(mg/kg)	ND	190	ND	50	46000



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Specimen Description:

- 1. Silvery plastic (ABS) (Track, accessory)
- 2. Black-grey plastic (ABS) (Connector)
- 3. Transparent dark cyan plastic sheet (PP) (Track)
- 4. Cyan coating on wood (Block)
- 5. Cream plywood (Support)
- 6. Silvery-grey coating on wood (Support, accessory, block)
- 7. Cyan fabric w/ black, grey printing w/ cyan fabric thread (Support)
- 8. Black plastic (PP) (Tipper)
- 9. Dark grey plastic (Support)
- 10. Cyan plastic (ABS) (Support, accessory)
- 11. Translucent plastic (Tube)
- 12. Cyan soft plastic (Accessory)
- 13. Black woven cord (Elastic cord)
- 14. Transparent glass (Bead)
- 15. Dark brown wood (Accessory)
- 16. Matt-red coating on wood (Support)
- 17. Matt-black coating on wood (Support, block)
- 18. Bright silvery coating on wood (Hammer, accessory)
- 19. Light brown wood (Block, ball)
- 20. Transparent lacquer coating on wood (Block)
- 21. Dark red coating on wood (Block)
- 22. Dull blue coating on wood (Long block)
- 23. Orange coating on wood (Block)
- 24. Black coating on wood (Support)
- 25. Transparent dry glue
- 26. Brown hardboard (Hammer)
- 27. Red plastic (ABS) (Tipper, accessory)



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Note: - mg/kg = milligram per kilogram

- mg = milligram

- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit
- -1% = 10000 mg/kg = 10000 ppm
- + Soluble Chromium is not restricted by EN 71-3:2019+A1:2021, results shown only for reference
- Result(s) of specimen No.19-No.20 is(are) extracted from report No. T52110321296TY
- Result(s) of specimen No.21-No.22, No.25, No.27 is(are) extracted from report No. T52210241078TY
- Result(s) of specimen No.23 is(are) extracted from report No. T52110300912TY
- Result(s) of specimen No.24, No.26 is(are) extracted from report No. T52110280191TY

Remark: 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+A1:2021.

Silvery coating on plastic (Tipper)

Grey-black coating on wood (Hammer)



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Remark:

- 1. Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS shall not be responsible for the authenticity and integrity of such data and information and the validity of the results and / or conclusions arising therefrom. Testing results only apply to the sample as received.
- 2. The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012). When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability(k=2), w = U₉₅. The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit (Tu):

Pass - when the measurement result is below Tu-U95

Fail - when the measurement result is above T_U+U₉₅

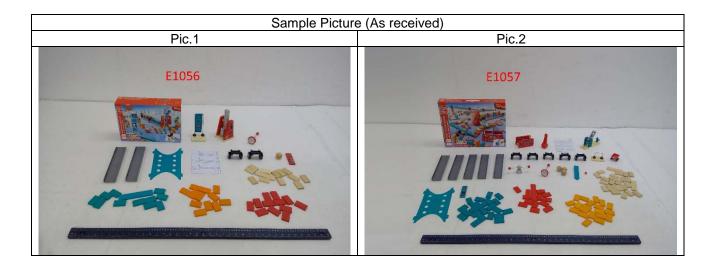
Inconclusive - when the measurement result is falling in guard band [Tu-U95, Tu+U95]

For Lower Tolerance Limit (T_L):

Pass - when the measurement result is above T_L+U₉₅

Fail - when the measurement result is below T_L-U₉₅

Inconclusive - when the measurement result is falling in guard band [T_L-U₉₅, T_L+U₉₅]



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*** End of Report ***



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