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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	:	T52010321599TY
Reference Number	:	WSZ-UK5201320132TY
Item Number	:	E3159
<b>Client Reference Information</b>	:	E3159A
Sample Description	:	E3159 POP-UP SHOP
Date of Issue	:	JAN 08, 2021

#### **Applied Standards**

#### Result

Pass

- 1) EN 71-1:2014+A1:2018 Safety of toys Part 1: Mechanical and Physical Properties Pass
- 2) EN 71-2:2011+A1:2014 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 - Migration of Pass certain elements

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

Ouyang Qin, Cansy Lab Operation Manager SGS SHENZHEN



Lepat D

Nina Pratt Senior Technologist 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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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: E3159 POP-UP SHOP

Item No.	:	E3159
Country of Destination	:	GLOBAL
Client Reference Information	:	E3159A
Labeled Age Grading	:	3Y+
Requested Age Grading	:	3Y+

\*\*\*\*\*

Age Group Assessed by SGS As Per Age Guideline	:	OVER 3 YEARS
Age Group Applied in Testing	:	OVER 3 YEARS
Sample Receiving Date	:	DEC 22, 2020
Testing Period	:	DEC 22, 2020 TO JAN 08, 2021



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Test	Requested	Conclusion					
1.	1. For compliance with the European standard on Safety of toys:- (except tool)						
	EN 71-1:2014+A1:2018 – Safety of toys – Part 1: Mechanical and Physical Properties	PASS					
	EN 71-2:2011+A1:2014 – 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 – 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

Liu Junjie, Tony Section Manager CNAS Approved Signatories

Qu Ping, Kiky Dept. Manager CNAS Approved Signatories





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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:

<u>Clause</u>	Descripti	on	<u>Result</u>
4	General	requirements	
4.1	Material	cleanliness	Pass
4.2	Assembly	у	Pass
4.3	Flexible p	plastics sheeting	<u>N/A</u>
4.4	Toy bags	3	<u>N/A</u>
4.5	Glass		Pass
4.6	Expandir	ng materials	<u>N/A</u>
4.7	Edges		Pass
4.8	Points ar	nd metallic wires	Pass
4.9	Protrudin	ng parts	<u>N/A</u>
4.10	Parts mo	oving against each other:	
	4.10.1	Folding and sliding mechanisms	<u>N/A</u>
	4.10.2	Driving mechanisms	<u>N/A</u>
	4.10.3	Hinges	<u>N/A</u>
	4.10.4	Springs	<u>N/A</u>
4.11	Mouth-ac	ctuated toys and other toys intended to be put in the mouth	<u>N/A</u>
4.12	Balloons		<u>N/A</u>
4.13	Cords of	toy kites and other flying toys	<u>N/A</u>
4.14	Enclosur	es:	
	4.14.1	Toys which a child can enter	<u>N/A</u>
	4.14.2	Masks and helmets	<u>N/A</u>
4.15	Toys inte	ended to bear the mass of a child:	
	4.15.1	Toys propelled by the child or by other means	<u>N/A</u>
	4.15.2	Toy bicycles	<u>N/A</u>
	4.15.3	Rocking horses and similar toys	<u>N/A</u>
	4.15.4	Toys not propelled by a child	<u>N/A</u>
	4.15.5	Toys scooters	<u>N/A</u>
4.16	Heavy im	nmobile toys	Pass



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Test	Report	No.: T52010321599TY	Date: JAN 08, 2021	Page 4 of 19
<u>Clause</u>	Descriptio	on		<u>Result</u>
4.17	Projectile	s		<u>N/A</u>
4.18	Aquatic to	bys and inflatable toys		<u>N/A</u>
4.19	Percussic percussio	on caps specifically designed for u on caps	se in toys and toys using	<u>N/A</u>
4.20	Acoustics	3		Pass
4.21	Toys cont	taining a non-electrical heat sourc	e	<u>N/A</u>
4.22	Small bal	ls		<u>N/A</u>
4.23	Magnets			<u>N/A</u>
4.24	Yoyo ball	s		<u>N/A</u>
4.25	•	ched to food		<u>N/A</u>
4.26	Toy disgu	iise costumes		<u>N/A</u>
4.27	Flying toy			<u>N/A</u>
5	-	nded for children under 36 monthe	6	
5.1		equirements:		
	5.1a	Small part requirement on toys	& removable	
		Components (Test method 8.2)		<u>N/A</u>
	5.1b	Torque test (Test method 8.3)		<u>N/A</u>
		Tension test (Test method 8.4)		<u>N/A</u>
		Drop test (Test method 8.5)		<u>N/A</u>
		Tip over test (Test method 8.6)		<u>N/A</u>
		Impact test (Test method 8.7)		<u>N/A</u>
		Compression test (Test method	8.8)	<u>N/A</u>
		Sharp edge (Test method 8.11)		<u>N/A</u>
		Sharp point (Test method 8.12)		<u>N/A</u>
	<b>Г</b> 4 с	Tension test for magnets (Test r		<u>N/A</u>
	5.1c	2mm or less	s and wires with a cross section	
	5.1d	Large and bulky toys		<u>N/A</u>
	5.1e	Glued wooden toys and toys wit	•	<u>N/A</u>
	5.1f	The casing of toys intended for unaided	children too young to sit up	<u>N/A</u>
	5.1g	Foam toys and toys containing a	accessible 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	-		<u>N/A</u>
5.4		ains and electrical cable in toys		<u>N/A</u>
5.5	Liquid fille	-		<u>N/A</u>
5.6		nitation of electrically driven toys		<u>N/A</u>
5.7	Glass and	d porcelain		<u>N/A</u>





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<u>Clause</u>	Description			<u>Result</u>
5.8		ize of certain toys		N/A
5.9	•	sing monofilament fibres		N/A
5.10	Small balls	5		N/A
5.11	Play figures			N/A
5.12	Hemispheric	shaped toys		N/A
5.13	Suction cups	· · ·		N/A
5.14	Straps intend	led to be used fully or partially	around the neck	N/A
5.15	-	cords for pulling		N/A
6	Packaging			Pass
7	Warnings, m	arkings and instructions for us	e	
7.1	General Req	uirements		Pass
	CEN has intr addressing th	oduced good practice in the in ne following aspects:	sibility and legibility of warnings, formative Annex A.33 by	
	, ,	sing the warning		
		, background and colours		
	c) Reflectin	g surfaces and obscuring mate	erial	
	d) Font type			
	<ul><li>e) Font size</li></ul>			
	, .	lirection of text		
		ails, see EN 71-1.		
7.2	(Remark: Th	nded for children under 36 mo e toy contains small parts. It is und on packaging.)	nths acceptable because appropriat	e <u>Pass</u> e <u>See Remark</u>
7.3	Latex Balloo	n		<u>N/A</u>
7.4	Aquatic toys			<u>N/A</u>
7.5	Functional T	oys		<u>N/A</u>
7.6	Hazardous s	harp functional edges and poir	nts	<u>N/A</u>
7.7	Projectiles			<u>N/A</u>
7.8	Imitation prot	ective masks and helmets		<u>N/A</u>
7.9	Toy kites			<u>N/A</u>
7.10	Roller skates toys	, inline skates and toy skatebo	pards and certain other ride-on	<u>N/A</u>
7.11	Toys intende	d to be strung across a cradle	, cot, or perambulator	<u>N/A</u>
7.12	Liquid filled t	eethers		<u>N/A</u>
7.13	Percussion c	aps specifically designed for u	se in toys	<u>N/A</u>
7.14	Acoustics			<u>N/A</u>
7.15	Toys bicycle			<u>N/A</u>
7.16	Toys intende	d to bear the mass of a child		<u>N/A</u>



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<u>Clause</u>	<b>Description</b>			<u>Result</u>
7.17	Toys compris	ing monofilament fibres		<u>N/A</u>
7.18	Toy scooters			<u>N/A</u>
7.19	Rocking horse	es and similar toys		<u>N/A</u>
7.20	Magnetic/elec	trical experimental sets		<u>N/A</u>
7.21	Toys with elec	ctrical cables exceeding 300 r	nm in length	<u>N/A</u>
7.22	Toys with core under 36 mor		Iren of 18 months and over but	<u>N/A</u>
7.23	Toys intended	to be attached to a cradle, c	ot or perambulator	<u>N/A</u>
7.24	Sledges with	cords for pulling		<u>N/A</u>
7.25	Flying toys			<u>N/A</u>
7.26	Improvised pr	ojectiles		<u>N/A</u>

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 71-2:2011+A1:2014 - SAFETY OF TOYS - PART 2: FLAMMABILITY

AS SPECIFIED IN EN 71-2:2011+A1:2014 – SAFETY OF TOYS – PART 2: FLAMMABILITY

Clauses relevant to the item:

<u>Clause</u>	Description	<u>Result</u>
4.1	General requirements	Pass
4.2.2	Beards, moustaches, wigs etc., made from hair, pile or material with similar features (e.g. free-hanging ribbons, paper or cloth strands or other flowing elements), which protrude 50mm or more from the surface of the toy	Not Applicable
4.2.3	Beards, moustaches, wigs etc. made from hair, pile or material with similar features (e.g. free-hanging ribbons, paper ,cloth strands or other flowing elements ), which protrude less than 50mm from the surface of the toy	Not Applicable
4.2.4	Full or partial moulded head masks	Not Applicable
4.2.5	Flowing elements of toys to be worn on the head (except those covered by 4.2.2 and 4.2.3), hoods, head-dresses etc. and masks not covered by 4.2.4 which partially or fully cover the head (e.g. fabric and cardboard 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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## Test Report No.: T52010321599TY Date: JAN 08, 2021

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

## 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-

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:

- 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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## Test Report No.: T52010321599TY Date: JAN 08, 2021

# 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 – Migration of certain elements

#### Category III: Scraped-off toy material

Method: With reference to EN 71-3:2019. Analysis of general elements was performed by ICP-OES. Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV-Vis / LC-ICP-MS and 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	(Al)	(mg/kg)	25127	1390	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 <sup>+</sup>	(Cr)	(mg/kg)	1.38	0.43	ND	0.15	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	1.38	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)	7497	203	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	(Al)	(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)	484	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	5	17
Soluble Chromium <sup>+</sup>	(Cr)	(mg/kg)	ND	ND	ND	0.15	
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.			7	8	9		
Mass of trace amount		(mg)	/	/	/		
Soluble Aluminium	(Al)	(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 <sup>+</sup>	(Cr)	(mg/kg)	ND	ND	ND	0.15	
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)	3.5	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	3.96	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.			10	11	12		
Mass of trace amount		(mg)	/	/	/		
Soluble Aluminium	(Al)	(mg/kg)	ND	202	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 <sup>+</sup>	(Cr)	(mg/kg)	ND	12.65	0.69	0.15	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	12.65	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)	/	/	77.3		
Soluble Aluminium	(Al)	(mg/kg)	58	204	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 <sup>+</sup>	(Cr)	(mg/kg)	ND	1.04	1.01	0.15	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	1.04	1.01	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)	126	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.			16	17	18		
Mass of trace amount		(mg)	/	/			
Soluble Aluminium	(Al)	(mg/kg)	1513	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 <sup>+</sup>	(Cr)	(mg/kg)	0.35	ND	ND	0.15	
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)	92	ND	ND	50	46000



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Test Item(s)			Resi	ult(s)	MDL	Permissible Limit
Specimen No.			19	20		
Mass of trace amount		(mg)	/	/		
Soluble Aluminium	(Al)	(mg/kg)	57	ND	50	28130
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	5	17
Soluble Chromium+	(Cr)	(mg/kg)	ND	ND	0.15	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	ND	0.010	0.053
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	2.3	23
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	ND	ND		12
Soluble Zinc	(Zn)	(mg/kg)	ND	ND	50	46000



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Specimen Description:

- 1. Silvery coating on wood (Body)
- 2. Off-white coating on wood (Edge)
- 3. Orange plastic (Button) (ABS)
- 4. Transparent black plastic sheet (Screen)
- 5. Transparent brown plastic (Scanner)
- 6. Silvery plastic (Bolt, nut) (PE)
- 7. White plastic w/ multi-color printing (Card)
- 8. Dark red plastic (Scanner, button) (ABS)
- 9. Transparent plastic film (Board)
- 10. Cream plywood
- 11. Black coating on wood (Body, lettering)
- 12. Cream wood
- 13. Brown hardboard (Body)
- 14. Red coating on wood (Body)
- 15. Transparent lacquer coating on wood (Body)
- 16. White coating on wood (Body)
- 17. White plastic (Button, scanner) (ABS)
- 18. Grey plastic (Bolt, nut) (PA)
- 19. Dull red coating on wood (Board)
- 20. Off-white plastic (Nut)



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Test Item(s)		Soluble Organic Tin Result(s) (mg/kg) 1	MDL (mg/kg)
Dimethyl tin	(DMT)	3.44	0.30
Methyl tin	(MeT)	0.52	0.30
Di-n-propyl tin	(DProT)	ND	0.30
Butyl tin	(BuT)	ND	0.30
Dibutyl tin	(DBT)	ND	0.30
Tributyl tin	(TBT)	ND	0.30
n-Octyl tin	(MOT)	ND	0.30
Tetrabutyl tin	(TeBT)	ND	0.30
Diphenyl tin	(DPhT)	ND	0.30
Di-n-octyl tin	(DOT)	ND	0.30
Triphenyl tin	(TPhT)	ND	0.30

Specimen Description:

1. White plastic w/ multi-color printing (Card)

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, results shown only for reference
- Result(s) of specimen No.10 is(are) extracted from report No.T52010321603TY.
- Result(s) of specimen No.11, No.19, No.20 is(are) extracted from report No.T52010321613TY.
- Result(s) of specimen No.12 is(are) extracted from report No.T52010271859TY.
- Result(s) of specimen No.13 is(are) extracted from report No.T51910311650TY.
- Result(s) of specimen No.14, No.15 is(are) extracted from report No.T52010211475TY.
- Result(s) of specimen No.16 is(are) extracted from report No.T52010290871TY.
- Result(s) of specimen No.17 is(are) extracted from report No.T52010271859TY.
- Result(s) of specimen No.18 is(are) extracted from report No.T52010250439TC.



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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. Brown coating on wood (Logo), black coating (Lettering), white coating (Lettering)

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 = U<sub>95</sub>. The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%. For Upper Tolerance Limit (T<sub>U</sub>):

Pass - when the measurement result is below  $T_{U}\text{-}U_{95}$ 

Fail - when the measurement result is above  $T_{U} + U_{95}$ 

Inconclusive - when the measurement result is falling in guard band  $[T_U-U_{95}, T_U+U_{95}]$ 

For Lower Tolerance Limit (TL):

Pass - when the measurement result is above  $T_{\rm L} + U_{\rm 95}$ 

Fail - when the measurement result is below TL-U95

Inconclusive - when the measurement result is falling in guard band  $[T_L-U_{95}, T_L+U_{95}]$ 



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Sample Photo:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*



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