

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

Sample Description : ADJUSTABLE RAIL TURNTABLE/ AUTOMATIC GATES  
 RAIL CROSSING/ RAILWAY XXL KIGA-SET  
 Sample Quantity : 13 SETS  
 Style / Item No. : E3723/ E3705/ E8805  
 Country of Origin : CHINA  
 Country of Destination : GLOBAL  
 Labeled Age Grading : E8805: 3+  
 E3705 & E3723: 3Y+  
 Requested Age Grading : 3Y+  
 Client reference information : E3723B/ E3705B/ E8805A,24201  
 Asin No : NA  
 \*\*\*\*\*  
 Source of Sample : SENT BY CLIENT.  
 Age Group Assessed as Per Age Guideline : 3+ YEARS  
 Age Group Applied in Testing : 3+ YEARS  
 Sample Receiving Date : AUG 11, 2022  
 Further Information Date : AUG 18, 2022  
 Testing Period : AUG 11, 2022 TO AUG 29, 2022

Test Requested	Result
EN 71-1: 2014+A1: 2018 – Safety of toys – Part 1: Mechanical and Physical Properties	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
EN 71-2: 2020 – Safety of toys – Part 2: Flammability	Pass
COMMISSION IMPLEMENTING DECISION (EU) 2021/1992 on harmonised standards for toys drafted in support of Directive 2009/48/EC - EN71-3: 2019+A1:2021 – Migration of certain elements (Category III:for scrapped-off toy material)	Pass

Signed for and on behalf of  
 SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

*Jessie Zhou*



Jessie Zhou  
 Authorized Signatory



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Results:

**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>	<u>Description</u>	<u>Result</u>
4	General requirements	
4.1	Material cleanliness	<u>Pass</u>
4.7	Edges	<u>Pass</u>
4.8	Points and metallic wires	<u>Pass</u>
4.9	Protruding parts	<u>Pass</u>
4.10	Parts moving against each other:	
	4.10.3 Hinges	<u>N/A</u>
	(Not applicable to products with a hinged part that has a mass less than 250g.)	
4.20	Acoustics	<u>Pass</u>
4.23	Magnets	<u>Pass</u>
6	Packaging	<u>Pass</u>
7	Warnings, markings and instructions for use	
7.1	General Requirements	<u>Pass</u>
	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	<u>Pass</u>
	(Remark: The toy contains small part. It is acceptable because appropriate warning is found on packaging.)	<u>See Remark</u>

Only English warnings were checked for the clause 7. According to 2009/48/EC, warnings and safety instructions shall be written in a language or languages easily understood by consumers.

N/A = Not Applicable



**LABELING REQUIREMENT (WASHING/CLEANING INSTRUCTION, CE MARK, IMPORTER / MANUFACTURER NAME AND ADDRESS, PRODUCT IDENTIFICATION) ACCORDING TO THE DIRECTIVE 2009/48/EC – SAFETY OF TOYS**

Summary table: E3723 & E8803

	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

Summary table: E3705

	Observation Result	Location
Washing/Cleaning instruction	Not applicable	/
CE Mark	Present	Toy/Packaging
Importer's Name & Address	Present	Packaging
Manufacturer's Name & Address	Present	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.

**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:

Clause	Description	Result
4.1	General requirements	Pass

N.B. : - Only applicable clauses were shown.



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Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA22-124162.001	Red coating
SN2	SHA22-124162.002	Black coating
SN3	SHA22-124162.003	Light blue coating
SN4	SHA22-124162.004	Grey coating
SN5	SHA22-124162.005	White coating
SN6	SHA22-124162.006	Light yellow coating
SN7	SHA22-124162.007	Blue coating
SN8	SHA22-124162.008	Green coating
SN9	SHA22-124162.009	Brown coating
SN10	SHA22-124162.010	Orange coating
SN11	SHA22-124162.011	Light green coating
SN12	SHA22-124162.012	Dark blue coating
SN13	SHA22-124162.013	Yellow coating
SN14	SHA22-124162.014	Dark grey coating
SN15	SHA22-124162.015	White ABS
SN16	SHA22-124162.016	Translucent grey ABS
SN17	SHA22-124162.017	Grey HIPS
SN18	SHA22-124162.018	Black PP
SN19	SHA22-124162.019	Red ABS
SN20	SHA22-124162.020	Orange ABS
SN21	SHA22-124162.021	Grey pp
SN22	SHA22-124162.022	Dark grey plastic
SN23	SHA22-124162.023	Red HDPE
SN24	SHA22-124162.024	Dark blue ABS body
SN25	SHA22-124162.025	Cream PVC figurine head
SN26	SHA22-124162.026	Light blue ABS
SN27	SHA22-124162.027	Light blue ABS body
SN28	SHA22-124162.028	Pink ABS body
SN29	SHA22-124162.029	Light green ABS
SN30	SHA22-124162.030	Light grey ABS
SN31	SHA22-124162.031	Translucent plastic box
SN32	SHA22-124162.032	Yellow PE
SN33	SHA22-124162.033	Grey ABS
SN34	SHA22-124162.034	Red PP



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SN35	SHA22-124162.035	Yellow ABS
SN36	SHA22-124162.036	Natural colored MDF
SN37	SHA22-124162.037	Natural colored solid wood
SN38	SHA22-124162.038	Natural colored plywood

Remarks :

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

**COMMISSION IMPLEMENTING DECISION (EU) 2021/1992 on harmonised standards for toys drafted in support of Directive 2009/48/EC - EN71-3: 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 or LC-ICP-MS.

Test Item(s)	Limit	Unit	MDL	001	002	003
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	-	ND
Soluble Lead (Pb)	23	mg/kg	5	---	---	ND
Soluble Antimony (Sb)	560	mg/kg	10	---	---	ND
Soluble Arsenic (As)	47	mg/kg	10	---	---	ND
Soluble Barium (Ba)	18750	mg/kg	50	---	---	ND
Soluble Cadmium (Cd)	17	mg/kg	5	---	---	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	-	ND
Soluble Mercury (Hg)	94	mg/kg	10	---	---	ND
Soluble Selenium (Se)	460	mg/kg	10	---	---	ND
Soluble Boron (B)	15000	mg/kg	50	---	---	ND
Soluble Cobalt (Co)	130	mg/kg	10	---	---	ND
Soluble Manganese (Mn)	15000	mg/kg	50	---	---	ND
Soluble Strontium (Sr)	56000	mg/kg	50	---	---	ND
Soluble Zinc (Zn)	46000	mg/kg	50	---	---	ND
Soluble Copper (Cu)	7700	mg/kg	50	---	---	ND
Soluble Aluminum (Al)	28130	mg/kg	50	---	---	116
Soluble Nickel (Ni)	930	mg/kg	10	---	---	ND
Soluble Tin (Sn)	180000	mg/kg	3	---	---	ND
Soluble Organic Tin*	12	mg/kg	-	---	---	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	-
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	---
Soluble Antimony (Sb)	560	mg/kg	10	ND	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) (Cr III)	460	mg/kg	5	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	111	---
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	---
Soluble Aluminum (Al)	28130	mg/kg	50	122	403	---
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	---

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	-	ND
Soluble Lead (Pb)	23	mg/kg	5	---	---	ND
Soluble Antimony (Sb)	560	mg/kg	10	---	---	ND
Soluble Arsenic (As)	47	mg/kg	10	---	---	ND
Soluble Barium (Ba)	18750	mg/kg	50	---	---	ND
Soluble Cadmium (Cd)	17	mg/kg	5	---	---	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	-	ND
Soluble Mercury (Hg)	94	mg/kg	10	---	---	ND
Soluble Selenium (Se)	460	mg/kg	10	---	---	ND
Soluble Boron (B)	15000	mg/kg	50	---	---	ND
Soluble Cobalt (Co)	130	mg/kg	10	---	---	ND
Soluble Manganese (Mn)	15000	mg/kg	50	---	---	ND
Soluble Strontium (Sr)	56000	mg/kg	50	---	---	ND
Soluble Zinc (Zn)	46000	mg/kg	50	---	---	ND
Soluble Copper (Cu)	7700	mg/kg	50	---	---	ND
Soluble Aluminum (Al)	28130	mg/kg	50	---	---	ND
Soluble Nickel (Ni)	930	mg/kg	10	---	---	ND
Soluble Tin (Sn)	180000	mg/kg	3	---	---	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
Soluble Organic Tin*	12	mg/kg	-	---	---	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	ND	-
Soluble Lead (Pb)	23	mg/kg	5	---	ND	---
Soluble Antimony (Sb)	560	mg/kg	10	---	ND	---
Soluble Arsenic (As)	47	mg/kg	10	---	ND	---
Soluble Barium (Ba)	18750	mg/kg	50	---	ND	---
Soluble Cadmium (Cd)	17	mg/kg	5	---	ND	---
Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	ND	-
Soluble Mercury (Hg)	94	mg/kg	10	---	ND	---
Soluble Selenium (Se)	460	mg/kg	10	---	ND	---
Soluble Boron (B)	15000	mg/kg	50	---	ND	---
Soluble Cobalt (Co)	130	mg/kg	10	---	ND	---
Soluble Manganese (Mn)	15000	mg/kg	50	---	ND	---
Soluble Strontium (Sr)	56000	mg/kg	50	---	ND	---
Soluble Zinc (Zn)	46000	mg/kg	50	---	86	---
Soluble Copper (Cu)	7700	mg/kg	50	---	ND	---
Soluble Aluminum (Al)	28130	mg/kg	50	---	ND	---
Soluble Nickel (Ni)	930	mg/kg	10	---	ND	---
Soluble Tin (Sn)	180000	mg/kg	3	---	ND	---
Soluble Organic Tin*	12	mg/kg	-	---	ND	---

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>013</u>	<u>014</u>	<u>015</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	-	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	---	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	---	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) (Cr III)	460	mg/kg	5	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



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# Test Report

No.: SHHL2208034487TY

Date: AUG 29, 2022

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Soluble Copper (Cu)	7700	mg/kg	50	ND	---	ND
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>013</u>	<u>014</u>	<u>015</u>
Soluble Aluminum (Al)	28130	mg/kg	50	63	---	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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>016</u>	<u>017</u>	<u>018</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
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) (Cr III)	460	mg/kg	5	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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>019</u>	<u>020</u>	<u>021</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
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) (Cr III)	460	mg/kg	5	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



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Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>019</u>	<u>020</u>	<u>021</u>
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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>022</u>	<u>023</u>	<u>024</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
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) (Cr III)	460	mg/kg	5	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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>025</u>	<u>026</u>	<u>027</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
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



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Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	025	026	027
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

Test Item(s)	Limit	Unit	MDL	028	029	030
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
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) (Cr III)	460	mg/kg	5	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

Test Item(s)	Limit	Unit	MDL	031	032	033
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND



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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
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>031</u>	<u>032</u>	<u>033</u>
Soluble Chromium (III) (Cr III)	460	mg/kg	5	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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>034</u>	<u>035</u>	<u>036</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
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) (Cr III)	460	mg/kg	5	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	55
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	104
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



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>037</u>	<u>038</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>037</u>	<u>038</u>
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) (Cr III)	460	mg/kg	5	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

**Notes :**

(1) According to the Commission Implementing Decision (EU) 2021/1992 of November 15, 2021, published in the OJEU. The EN 71-3:2019+A1:2021 is adopted as the harmonized standard for toys drafted in support of Directive 2009/48/EC.

(2) 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)

(3) Mass of trace amount of sample 003 is 41.9mg, sample 004 is 33.2mg, sample 005 is 47.9mg, sample 009 is 18.5mg, sample 011 is 23.9mg, sample 013 is 40.0mg, sample 021 is 93.7mg, sample 027 is 97.4mg.

(4) As received, the test portion of 001, 002, 006, 007, 008, 010, 012, 014 is less than 10mg, therefore such components were not tested for migration of certain elements, as specified in the European Standard EN 71-3:2019+A1:2021.

(5) \*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.



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**Remark:**

The test results 001, 013 are taken from report SHA22-084938.004, 001

The test results 002, 003, 012 are taken from report SHA22-017028.009, 006, 007

The test results 004, 005, 036, 037, 038 are taken from report SHA22-075743.006, 010, 012, 011, 013

The test results 007, 008 are taken from report SHA22-020025.012, 010

The test results 009, 010, 014, 015, 016, 018, 019, 021, 023, 024, 025, 033, 035 are taken from report SHA22-124075.014, 007, 010, 027, 025, 018, 028, 019, 021, 042, 038, 020, 029

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ( $w=0$ ) stated in ILAC-G8:09/2019.

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2. The declaration of conformity is based on acceptance limits chosen based on simple acceptance ( $w = 0, AL = TL$ ).

Statements of conformity are reported as:

Passed - The measured values were observed in tolerance at the points tested.

Failed - One or more measured values were observed out of tolerance at the points tested.

**Sample Photo:**



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