



Test Report

No.: SHHL2208034488TY

Date: AUG 29, 2022

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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
Sample Quantity : 13 SETS
Style / Item No. : E3723/ E3705/ E8805
Country of Origin : CHINA
Country of Destination : GLOBAL
E8805: 3+
Labeled Age Grading : 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 19, 2022
Testing Period : AUG 11, 2022 TO AUG 29, 2022

Table with 2 columns: Test Requested, Result. Rows include ASTM F963-17 Standard Consumer Safety Specification for Toy Safety (Pass), Lead (Pb) (Pass), CPSIA section 101(a)(2)-Lead in accessible substrate materials (Metal) (Pass), CPSIA section 101(a)(2)-Lead in accessible substrate materials (Non-Metal) (Pass), CPSIA section 101(f)-Lead in paint/similar surface coating material (Pass), US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 and US CPSC 16 CFR 1501 (Pass), US CPSC 16 CFR 1500.19 - Misbranded toys and other articles intended for use by children (Pass), US CPSC 16 CFR 1500.44 - Method for determining extremely flammable and flammable solids (Pass), Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products. (Pass)



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

scan to see the report



SHHL2208034488TY

Jessie Zhou

Jessie Zhou
Authorized Signatory



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Test Result

ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY

AS SPECIFIED IN ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	Safety Requirements	
4.1	Material Quality **	<u>Pass</u>
4.2	Flammability Test	<u>Pass (See Detail of test result)</u>
4.3	Toxicology	
4.3.5	Heavy Elements	
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials	<u>Pass (See Detail of test result)</u>
4.3.5.2	Heavy Metal in Substrate Materials	<u>Pass (See Detail of test result)</u>
4.5	Sound-Producing Toys	<u>Pass</u>
4.6.3	Labelling Requirements	<u>Pass</u>
4.7	Accessible Edges	<u>Pass</u>
4.8	Projections	<u>Pass</u>
4.9	Accessible Points	<u>Pass</u>
4.11	Nails and Fasteners	<u>Pass</u>
4.12	Plastic Film	<u>Pass</u>
4.13.2	Hinge-Line Clearance (Remark: Not applicable because of the weight of part link with hinge is less than 0.5lb.)	<u>N/A</u>
4.38	Magnets	<u>Pass</u>
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	<u>Pass</u>
5.3	Safety Labeling Requirements	<u>Pass</u>
5.11	Small Objects, Small Balls, Marbles, and Balloons	<u>Pass</u>
5.16	Promotional Materials	<u>Pass</u>



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7	Producer's Markings	
7.1	Producer's Markings	<u>Pass</u>
8.5	Normal Use Testing	<u>Pass</u>
8.7	Impact Test	<u>Pass</u>
8.8	Torque Test	<u>Pass</u>
8.9	Tension Test	<u>Pass</u>
8.10	Compression Test	<u>Pass</u>

N/A = Not Applicable

** Visual Examination

Detail of test result:

ASTM F963-17, Clause 4.2 – Flammability Test
Flammability Test on Solid

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>
SET	0.03

Requirement: A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA22-124172.001	Red coating
SN2	SHA22-124172.002	Black coating
SN3	SHA22-124172.003	Light blue coating
SN4	SHA22-124172.004	Grey coating
SN5	SHA22-124172.005	White coating
SN6	SHA22-124172.006	Light yellow coating
SN7	SHA22-124172.007	Blue coating
SN8	SHA22-124172.008	Green coating
SN9	SHA22-124172.009	Brown coating
SN10	SHA22-124172.010	Orange coating
SN11	SHA22-124172.011	Light green coating
SN12	SHA22-124172.012	Dark blue coating
SN13	SHA22-124172.013	Yellow coating
SN14	SHA22-124172.014	Dark grey coating
SN15	SHA22-124172.015	White ABS
SN16	SHA22-124172.016	Translucent grey ABS
SN17	SHA22-124172.017	Grey HIPS



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SN18	SHA22-124172.018	Black PP
SN19	SHA22-124172.019	Red ABS
SN20	SHA22-124172.020	Orange ABS
SN21	SHA22-124172.021	Grey pp
SN22	SHA22-124172.022	Dark grey plastic
SN23	SHA22-124172.023	Red HDPE
SN24	SHA22-124172.024	Dark blue ABS body
SN25	SHA22-124172.025	Cream PVC figurine head
SN26	SHA22-124172.026	Light blue ABS
SN27	SHA22-124172.027	Light blue ABS body
SN28	SHA22-124172.028	Pink ABS body
SN29	SHA22-124172.029	Light green ABS
SN30	SHA22-124172.030	Light grey ABS
SN31	SHA22-124172.031	Translucent plastic box
SN32	SHA22-124172.032	Yellow PE
SN33	SHA22-124172.033	Grey ABS
SN34	SHA22-124172.034	Red PP
SN35	SHA22-124172.035	Yellow ABS
SN36	SHA22-124172.036	Natural colored MDF
SN37	SHA22-124172.037	Natural colored solid wood
SN38	SHA22-124172.038	Natural colored plywood
SN39	SHA22-124172.039	Silvery metal magnet
SN40	SHA22-124172.040	Silvery metal wheel

Remarks :

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



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Lead (Pb)

Test Method : With reference to US EPA Method 3050B:1996, analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>039</u>	<u>040</u>
Lead (Pb)	40	mg/kg	2	ND	ND
Conclusion				PASS	PASS

Notes :

The maximum permissible limit is quoted from the client requirement.

American Society for Testing and Materials –ASTM F 963-17 –total Lead in Substrate Materials

Test Method : With reference to CPSC-CH-E1001-08.3, Analysis was performed by AAS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>039</u>	<u>040</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND

American Society for Testing and Materials –ASTM F 963-17 –total Lead in Substrate Materials

Test Method : With reference to CPSC-CH-E1002-08.3. Analysis was performed by AAS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>015</u>	<u>016</u>	<u>017</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>018</u>	<u>019</u>	<u>020</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>021</u>	<u>022</u>	<u>023</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>024</u>	<u>025</u>	<u>026</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>027</u>	<u>028</u>	<u>029</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND



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Test Item(s)	Limit	Unit	MDL	030	031	032
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	033	034	035
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND

Lead (Pb)

Test Method : With reference to US EPA 3052:1996, analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit	MDL	001	002	003
Lead (Pb)	40	mg/kg	2	ND	ND	5
Conclusion				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	004	005	006
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	007	008	009
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	010	011	012
Lead (Pb)	40	mg/kg	2	ND	ND	4
Conclusion				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	013	014	015
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>016</u>	<u>017</u>	<u>018</u>
Lead (Pb)	40	mg/kg	2	ND	ND	3
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>019</u>	<u>020</u>	<u>021</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>022</u>	<u>023</u>	<u>024</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>025</u>	<u>026</u>	<u>027</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>028</u>	<u>029</u>	<u>030</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>031</u>	<u>032</u>	<u>033</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>034</u>	<u>035</u>
Lead (Pb)	40	mg/kg	2	ND	ND
Conclusion				PASS	PASS



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Notes :

The maximum permissible limit is quoted from the client requirement.

American Society for Testing and Materials –ASTM F 963-17– total Lead in paint and similar surface-coating materials

Test Method : With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
Total Lead (Pb)	90	mg/kg	20	ND	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>
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>013</u>	<u>014</u>
Total Lead (Pb)	90	mg/kg	20	ND	ND

Part 1303, Title 16, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A. requirement-Lead

Test Method : With reference to CPSC Test Method: CPSC-CH-E1003-09.1, analysis was performed by AAS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Lead (Pb)	0.009	%	0.002	ND	ND	ND

Conclusion **PASS PASS PASS**



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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>
Lead (Pb)	0.009	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
Lead (Pb)	0.009	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>
Lead (Pb)	0.009	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>013</u>	<u>014</u>
Lead (Pb)	0.009	%	0.002	ND	ND
Conclusion				PASS	PASS

American Society for Testing and Materials –ASTM F 963-17 – soluble Heavy Metal for paint and similar surface-coating materials/ Substrate Materials

Test Method : With reference to ASTM F 963-17 (Clause 8.3), analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Soluble Lead (Pb)	90	mg/kg	5	-	-	ND
Soluble Antimony (Sb)	60	mg/kg	5	-	-	ND
Soluble Arsenic (As)	25	mg/kg	2.5	-	-	ND
Soluble Barium (Ba)	1000	mg/kg	10	-	-	ND
Soluble Cadmium (Cd)	75	mg/kg	5	-	-	ND
Soluble Chromium (Cr)	60	mg/kg	5	-	-	ND
Soluble Mercury (Hg)	60	mg/kg	5	-	-	ND
Soluble Selenium (Se)	500	mg/kg	10	-	-	ND



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Test Item(s)	Limit	Unit	MDL	004	005	006
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	-
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	-
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	-
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	-
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	-
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	-
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	-
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	-

Test Item(s)	Limit	Unit	MDL	007	008	009
Soluble Lead (Pb)	90	mg/kg	5	-	-	ND
Soluble Antimony (Sb)	60	mg/kg	5	-	-	ND
Soluble Arsenic (As)	25	mg/kg	2.5	-	-	ND
Soluble Barium (Ba)	1000	mg/kg	10	-	-	ND
Soluble Cadmium (Cd)	75	mg/kg	5	-	-	ND
Soluble Chromium (Cr)	60	mg/kg	5	-	-	ND
Soluble Mercury (Hg)	60	mg/kg	5	-	-	ND
Soluble Selenium (Se)	500	mg/kg	10	-	-	ND

Test Item(s)	Limit	Unit	MDL	010	011	012
Soluble Lead (Pb)	90	mg/kg	5	-	ND	-
Soluble Antimony (Sb)	60	mg/kg	5	-	ND	-
Soluble Arsenic (As)	25	mg/kg	2.5	-	ND	-
Soluble Barium (Ba)	1000	mg/kg	10	-	ND	-
Soluble Cadmium (Cd)	75	mg/kg	5	-	ND	-
Soluble Chromium (Cr)	60	mg/kg	5	-	ND	-
Soluble Mercury (Hg)	60	mg/kg	5	-	ND	-
Soluble Selenium (Se)	500	mg/kg	10	-	ND	-

Test Item(s)	Limit	Unit	MDL	013	014	015
Soluble Lead (Pb)	90	mg/kg	5	ND	-	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	-	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	-	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	-	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	-	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	-	ND



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Soluble Mercury (Hg)	60	mg/kg	5	ND	-	ND
Soluble Selenium (Se)	500	mg/kg	10	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 Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	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 Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	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 Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>025</u>	<u>026</u>	<u>027</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>028</u>	<u>029</u>	<u>030</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	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 Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	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 Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND



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Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	037	038
Soluble Lead (Pb)	90	mg/kg	5	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND

Notes :

- (1) Results shown are of the adjusted analytical results
- (2) Mass of trace amount of sample 003 is 40.4mg, sample 004 is 26.5mg, sample 005 is 26.6mg, sample 009 is 32.1mg, sample 011 is 11.8mg, sample 013 is 46.9mg, sample 021 is 99.6mg, sample 024 is 98.6mg, sample 027 is 97.8mg, sample 028 is 95.0mg, sample 030 is 93.4mg, sample 034 is 65.6mg.
- (3) As received, the test portion of samples 001, 002, 006, 007, 008, 010, 012, 014 from one whole sample are less than 10mg, therefore such components were not tested for certain migration elements, as specified in ASTM F963-17 Clause 8.3.3.6 (2) – Selection of Test Portions

CPSIA section 101(a)(2)-Lead in accessible substrate materials (Metal)

Test Method : With reference to CPSC-CH-E1001-08.3, analysis was performed by AAS or ICP-OES.

Test Item(s)	Limit	Unit	MDL	039
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

Test Item(s)	Limit	Unit	MDL	040
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS



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CPSIA section 101(a)(2)-Lead in accessible substrate materials (Non-Metal)

Test Method : With reference to CPSC-CH-E1002-08.3 ,analysis was performed by AAS or ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>015</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>016</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>017</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>018</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>019</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>020</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>021</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>022</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>023</u>
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Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>024</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>025</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>026</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>027</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>028</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>029</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>030</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>031</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>032</u>
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS



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Test Item(s)	Limit	Unit	MDL	033
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

Test Item(s)	Limit	Unit	MDL	034
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

Test Item(s)	Limit	Unit	MDL	035
Lead (Pb)	0.01	%	0.002	ND
Conclusion				PASS

CPSIA section 101(f)-Lead in paint/similar surface coating material

Test Method : With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS or ICP-OES.

Test Item(s)	Limit	Unit	MDL	001
Lead (Pb)	0.009	%	0.002	ND
Conclusion				PASS

Test Item(s)	Limit	Unit	MDL	002
Lead (Pb)	0.009	%	0.002	ND
Conclusion				PASS

Test Item(s)	Limit	Unit	MDL	003
Lead (Pb)	0.009	%	0.002	ND
Conclusion				PASS

Test Item(s)	Limit	Unit	MDL	004
Lead (Pb)	0.009	%	0.002	ND
Conclusion				PASS

Test Item(s)	Limit	Unit	MDL	005
Lead (Pb)	0.009	%	0.002	ND
Conclusion				PASS

Test Item(s)	Limit	Unit	MDL	006



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Lead (Pb)

0.009 % 0.002 ND

Conclusion

PASS

Test Item(s)

Limit Unit MDL 007

Lead (Pb)

0.009 % 0.002 ND

Conclusion

PASS

Test Item(s)

Limit Unit MDL 008

Lead (Pb)

0.009 % 0.002 ND

Conclusion

PASS

Test Item(s)

Limit Unit MDL 009

Lead (Pb)

0.009 % 0.002 ND

Conclusion

PASS

Test Item(s)

Limit Unit MDL 010

Lead (Pb)

0.009 % 0.002 ND

Conclusion

PASS

Test Item(s)

Limit Unit MDL 011

Lead (Pb)

0.009 % 0.002 ND

Conclusion

PASS

Test Item(s)

Limit Unit MDL 012

Lead (Pb)

0.009 % 0.002 ND

Conclusion

PASS

Test Item(s)

Limit Unit MDL 013

Lead (Pb)

0.009 % 0.002 ND

Conclusion

PASS

Test Item(s)

Limit Unit MDL 014

Lead (Pb)

0.009 % 0.002 ND

Conclusion

PASS

Remark:

The test results 001, 013 are taken from report SHA22-084951.004, 001

The test results 002, 003, 012 are taken from report SHA22-017058.009, 006, 007



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The test results 004, 005, 036, 037, 038 are taken from report SHA22-075721.006, 010, 012, 011, 013

The test results 007, 008 are taken from report SHA22-020028.012, 010

The test results 009, 010, 014, 015, 016, 018, 019, 021, 023, 024, 025, 033, 035 are taken from report SHA22-124085.014, 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.

PHYSICAL AND MECHANICAL TESTS CONSISTING US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 AND US CPSC 16 CFR 1501

AS SPECIFIED IN PHYSICAL AND MECHANICAL TESTS CONSISTING US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 AND US CPSC 16 CFR 1501

	<u>No. of sample tested</u>	<u>Sharp point (16 CFR 1500.48)</u>	<u>Sharp edge (16 CFR 1500.49)</u>	<u>Small part (16 CFR 1501)</u>
As received	3	Pass	Pass	N/A
Impact test (16 CFR 1500.53b)	3	Pass	Pass	N/A
Bite test (16 CFR 1500.53c)	0	N/A	N/A	N/A
Flexure test (16 CFR 1500.53d)	0	N/A	N/A	N/A
Torque test (16 CFR 1500.53e)	3	Pass	Pass	N/A
Tension test (16 CFR 1500.53f)	3	Pass	Pass	N/A
Compression test (16 CFR 1500.53g)	3	Pass	Pass	N/A

N/A = Not Applicable

US CPSC 16 CFR 1500.19 – MISBRANDED TOYS AND OTHER ARTICLES INTENDED FOR USE BY CHILDREN

AS SPECIFIED IN US CPSC 16 CFR 1500.19 – MISBRANDED TOYS AND OTHER ARTICLES INTENDED FOR USE BY CHILDREN

Appropriate warning according to 16 CFR 1500.19 was found on the principle display panel of the product's packaging.

US CPSC 16 CFR 1500.44 – METHOD FOR DETERMINING EXTREMELY FLAMMABLE AND FLAMMABLE SOLIDS

AS SPECIFIED IN US CPSC 16 CFR 1500.44 – METHOD FOR DETERMINING EXTREMELY FLAMMABLE AND FLAMMABLE SOLIDS

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>
SET	0.03

Requirement: A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.



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Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.

Notes:

Note 1: As specified in Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.

- Tracking label found on the packaging: E3723: P2122403401 NBCN 03/2022
E3705: P2122403441 NBCN 05/2022
E8805: P2222120300 NBCN 08/2022
- Tracking label found on the product: E3723: P2122403401 NBCN 03/2022
E3705: P2122403441 NBCN 05/2022
E8805: P2222120300 NBCN 08/2022

Note 2: 1) The tracking label assessment was based on the submitted samples and the information provided by the applicant. There was no verification on the validity of such information.

2) City and State, or administrative state shall be also provided for the source (location) information.

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 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.



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*** End of Report ***



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