

Test Report

No.: SHHL2408049660TY

Date: OCT. 21, 2024

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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 : Grand Station Portable Set
Sample Quantity : 2 SETS
Style / Item No. : E3877
Country of Origin : CHINA
Country of Destination : GLOBAL
Labeled Age Grading : 3-8 YEARS
Requested Age Grading : 3Y-8Y
Client Reference Information : E3877K

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. 27, 2024
Further Information Date : SEP. 20, 2024
Testing Period : AUG. 27, 2024 TO SEP. 23, 2024

Test Requested	Result
ASTM F963-23 Standard Consumer Safety Specification for Toy Safety	Pass
Physical and mechanical tests consisting 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 15 U.S.C. § 2063(a)(5) and Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.	Pass
CPSIA section 101(f) - Lead in paint/similar surface coating material	Pass
Part 1303, Title 16, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A.-Lead in paint/similar surface coating material	Pass
Total Lead Content (Metal)	Pass
CPSIA section 101(a)(2) - Lead in accessible substrate materials	Pass
Total Lead Content (Non-Metal)	Pass
Total Lead Content (Coating)	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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ASTM F963-23 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY

AS SPECIFIED IN ASTM F963-23 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clauses relevant to the item:

Clause	Description	Result
4	Safety Requirements	
4.1	Material Quality **	Pass
4.2	Flammability Test	Pass (See Result Page)
4.3	Toxicology	
4.3.5	Heavy Elements	
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials	Pass (See Result Page)
4.3.5.2	Heavy Metal in Substrate Materials	Pass (See Result Page)
4.3.8	Phthalates	Pass (See Result Page)
4.6.3	Labelling Requirements	Pass
4.7	Accessible Edges	Pass
4.8	Projections	Pass
4.9	Accessible Points	Pass
4.11	Nails and Fasteners	Pass
4.13.2	Hinge-line Clearance	N/A
	Remark: Not applicable because of the weight of part link with hinge is less than 0.5lb.	
4.17	Wheels, Tires, and Axles	Pass
4.38	Magnets	Pass
5	Safety Labeling Requirements	
5.1	Federal Government Requirements	
5.1.1	Specific Labeling Requirement	See Remark
	Remark: All toys that fall within the definitions and requirements of the U.S. FHSA shall conform to the labeling requirement of that act. For specific requirements, reference 16 CFR 1500.3, 1500.14, 1500.19, 1500.82, 1500.83, 1500.86, 1500.121, 1500.122, 1500.123, 1500.125, 1500.126, 1500.127, 1500.128, 1500.130, 1505.3, and 1511.7. In addition, state labeling requirements may exist.	
5.1.2	Tracking Label	Pass
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	Pass



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5.11	Small Objects, Small Balls, Marbles, and Balloons	<u>Pass</u>
5.15	Promotional Materials	<u>Pass</u>
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>
8.25	Magnet Test	<u>Pass</u>

N/A = Not Applicable

** Visual Examination

Result Page:

ASTM F963-23, Clause 4.2 – Flammability Test Flammability Test on Solid

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>
Grand Station Portable 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.

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



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Results:

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</u> (16 CFR 1500.48)	<u>Sharp edge</u> (16 CFR 1500.49)	<u>Small part</u> (16 CFR 1501)
As received	1	Pass	Pass	N/A
Impact test (16 CFR 1500.53b)	1	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)	1	Pass	Pass	N/A
Tension test (16 CFR 1500.53f)	1	Pass	Pass	N/A
Compression test (16 CFR 1500.53g)	1	Pass	Pass	N/A

N/A = Not Applicable

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

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>
Grand Station Portable 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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Test Result

Tracking label per 15 U.S.C. § 2063(a)(5) and Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.

As specified in 15 U.S.C. § 2063(a)(5) and Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.

- Tracking label on the packaging: Present

- Tracking label on the product: Present

Note: 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.

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA24-0197197-0001.C001	Red coating
SN2	A2	SHA24-0197197-0001.C002	Yellow coating
SN3	A3	SHA24-0197197-0001.C003	Dark grey coating
SN4	A4	SHA24-0197197-0001.C004	Black coating
SN5	A5	SHA24-0197197-0001.C005	Coffee coating
SN6	A6	SHA24-0197197-0001.C006	White coating
SN7	A7	SHA24-0197197-0001.C007	Peach coating
SN8	A8	SHA24-0197197-0001.C008	Brown coating
SN9	A9	SHA24-0197197-0001.C009	Aqua coating
SN10	A10	SHA24-0197197-0001.C010	Green coating
SN11	A11	SHA24-0197197-0001.C011	Blue coating
SN12	A12	SHA24-0197197-0001.C012	Cream coating
SN13	A13	SHA24-0197197-0001.C013	Colorful coating
SN14	A14	SHA24-0197197-0001.C014	Red ABS
SN15	A15	SHA24-0197197-0001.C015	Light grey plastic
SN16	A16	SHA24-0197197-0001.C016	Light grey HIPS
SN17	A17	SHA24-0197197-0001.C017	White ABS
SN18	A18	SHA24-0197197-0001.C018	Translucent grey plastic
SN19	A19	SHA24-0197197-0001.C019	Black PP wheel
SN20	A20	SHA24-0197197-0001.C020	Dark grey plastic
SN21	A21	SHA24-0197197-0001.C021	Grey plastic



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SN ID	Sample No.	SGS Sample ID	Description
SN22	A22	SHA24-0197197-0001.C022	Black ABS
SN23	A23	SHA24-0197197-0001.C023	Yellow ABS
SN24	A24	SHA24-0197197-0001.C024	Orange plastic
SN25	A25	SHA24-0197197-0001.C025	Red plastic
SN26	A26	SHA24-0197197-0001.C026	Flesh PVC
SN27	A27	SHA24-0197197-0001.C027	Pink ABS
SN28	A28	SHA24-0197197-0001.C028	Aqua ABS
SN29	A29	SHA24-0197197-0001.C029	Blue ABS
SN30	A30	SHA24-0197197-0001.C030	Black plastic
SN31	A31	SHA24-0197197-0001.C031	Black/white plastic film sticky
SN32	A32	SHA24-0197197-0001.C032	Natural colored MDF
SN33	A33	SHA24-0197197-0001.C033	Natural colored plywood
SN34	A34	SHA24-0197197-0001.C034	Natural colored solid wood
SN35	A35	SHA24-0197197-0001.C035	Silvery metal screw
SN36	A36	SHA24-0197197-0001.C036	Silvery metal rivet
SN37	A37	SHA24-0197197-0001.C037	Silvery metal felloe
SN38	A38	SHA24-0197197-0001.C038	Translucent plastic film
SN39	A14+A15+A16	SHA24-0197197-0002	Red ABS + Light grey plastic + Light grey HIPS
SN40	A20+A21+A22	SHA24-0197197-0003	Dark grey plastic + Grey plastic + Black ABS
SN41	A26+A27+A28	SHA24-0197197-0004	Flesh PVC + Pink ABS + Aqua ABS
SN42	A29+A30	SHA24-0197197-0005	Blue ABS + Black plastic

Remarks:

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

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/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Lead (Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Lead (Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A9
Lead (Pb)	90	mg/kg	20	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A9
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A10	A11	A12
Lead (Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A13
Lead (Pb)	90	mg/kg	20	ND
Conclusion				Pass

Part 1303, Title 16, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A.-Lead in paint/similar surface coating material

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

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Lead(Pb)	0.009	%	0.0020	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Lead(Pb)	0.009	%	0.0020	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A9
Lead(Pb)	0.009	%	0.0020	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A10	A11	A12
Lead(Pb)	0.009	%	0.0020	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A13
Lead(Pb)	0.009	%	0.0020	ND
Conclusion				Pass

Total Lead Content (Metal)

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

Test Item(s)	Limit	Unit(s)	MDL	A35	A36	A37
Lead(Pb)	40	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Notes:

(1) The maximum permissible limit is quoted from the client requirement.



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ASTM F963-23, Clause 4.3.5.1 – Total Lead in Paint and Similar Surface-coating Materials

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

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A9
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A10	A11	A12
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A13
Total Lead (Pb)	90	mg/kg	20	ND
Conclusion				Pass

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

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

Test Item(s)	Limit	Unit(s)	MDL	A14	A15	A16
Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A17	A18	A19
Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A20	A21	A22
Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A23	A24	A25
Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Unit(s)	MDL	A26	A27	A28
Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A29	A30	A38
Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

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

Test Item(s)	Limit	Unit(s)	MDL	A35	A36	A37
Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Total Lead Content (Non-Metal)

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

Test Item(s)	Limit	Unit(s)	MDL	A14	A15	A16
Lead(Pb)	40	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A17	A18	A19
Lead(Pb)	40	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A20	A21	A22
Lead(Pb)	40	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A23	A24	A25
Lead(Pb)	40	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A26	A27	A28
Lead(Pb)	40	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A29	A30	A38
Lead(Pb)	40	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Notes:

(1) The maximum permissible limit is quoted from the client requirement.



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Total Lead Content (Coating)

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

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Lead(Pb)	40	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Lead(Pb)	40	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A9
Lead(Pb)	40	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A10	A11	A12
Lead(Pb)	40	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A13
Lead(Pb)	40	mg/kg	20	ND
Conclusion				Pass

Notes:

(1) The maximum permissible limit is quoted from the client requirement.

ASTM F963-23, Clause 4.3.5.2 – Total Lead in Substrate Materials

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

Test Item(s)	Limit	Unit(s)	MDL	A14	A15	A16
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A17	A18	A19
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A20	A21	A22
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A23	A24	A25
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Unit(s)	MDL	A26	A27	A28
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A29	A30	A38
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

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

Test Item(s)	Limit	Unit(s)	MDL	A35	A36	A37
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

ASTM F963-23, Clause 4.3.5.1 – Soluble Heavy Metal in Paint and Similar Surface-coating Materials

Test Method: With reference to ASTM F 963-23 (Clause 8.3), analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A1*	A2	A3
Soluble Mercury(Hg)	60	mg/kg	5	-	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	-	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	-	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	-	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	-	ND	ND
Soluble Lead(Pb)	90	mg/kg	5	-	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	-	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	-	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A4*	A5*	A6*
Soluble Mercury(Hg)	60	mg/kg	5	-	-	-
Soluble Chromium(Cr)	60	mg/kg	5	-	-	-
Soluble Cadmium(Cd)	75	mg/kg	5	-	-	-
Soluble Barium(Ba)	1000	mg/kg	10	-	-	-
Soluble Arsenic(As)	25	mg/kg	2.5	-	-	-
Soluble Lead(Pb)	90	mg/kg	5	-	-	-
Soluble Antimony(Sb)	60	mg/kg	5	-	-	-
Soluble Selenium(Se)	500	mg/kg	10	-	-	-
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A7	A8*	A9
Soluble Mercury(Hg)	60	mg/kg	5	ND	-	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	-	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	-	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	-	ND



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Test Item(s)	Limit	Unit(s)	MDL	A7	A8*	A9
Soluble Arsenic(As)	25	mg/kg	2.5	ND	-	ND
Soluble Lead(Pb)	90	mg/kg	5	ND	-	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	-	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	-	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A10	A11*	A12*
Soluble Mercury(Hg)	60	mg/kg	5	ND	-	-
Soluble Chromium(Cr)	60	mg/kg	5	ND	-	-
Soluble Cadmium(Cd)	75	mg/kg	5	ND	-	-
Soluble Barium(Ba)	1000	mg/kg	10	ND	-	-
Soluble Arsenic(As)	25	mg/kg	2.5	ND	-	-
Soluble Lead(Pb)	90	mg/kg	5	ND	-	-
Soluble Antimony(Sb)	60	mg/kg	5	ND	-	-
Soluble Selenium(Se)	500	mg/kg	10	ND	-	-
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A13
Soluble Mercury(Hg)	60	mg/kg	5	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND
Soluble Lead(Pb)	90	mg/kg	5	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND
Soluble Selenium(Se)	500	mg/kg	10	ND
Conclusion				Pass

Notes:

- (1) Results shown are of the adjusted analytical results.
- (2) Mass of trace amount of sample A2 is 20.3mg, sample A3 is 69.4mg, sample A7 is 34.3mg, sample A9 is 28.6mg, sample A13 is 73.9mg.
- (3) ●As received, the test portion of samples from one whole sample are less than 10mg, therefore such components were not tested for certain migration elements, as specified in ASTM F963-23 Clause 8.3.3.6 (2).

ASTM F963-23, Clause 4.3.5.2 – Soluble Heavy Metal in Substrate Materials

Test Method: With reference to ASTM F 963-23 (Clause 8.3), analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A14	A15	A16
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A14	A15	A16
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A17	A18	A19
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A20	A21	A22
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A23	A24	A25
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A26	A27	A28
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A26	A27	A28
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A29	A30	A31
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A32	A33	A34
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A38
Soluble Mercury(Hg)	60	mg/kg	5	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND
Soluble Lead(Pb)	90	mg/kg	5	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND
Soluble Selenium(Se)	500	mg/kg	10	ND
Conclusion				Pass

Notes:

- (1) Results shown are of the adjusted analytical results.
- (2) Mass of trace amount of sample A31 is 29mg.



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ASTM F963-23, Clause 4.3.8 – Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A38	A14+A15 +A16	A20+A21 +A22
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	ND	ND	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND	ND	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%	0.005	ND	ND	ND
Dipentyl Phthalate (DPENP)	131-18-0	0.1	%	0.005	ND	ND	ND
Dihexyl Phthalate (DHEXP/ DnHP)	84-75-3	0.1	%	0.005	ND	ND	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	0.1	%	0.005	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A26+A27 +A28	A29+A30
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	ND	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	0.1	%	0.005	ND	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%	0.005	ND	ND
Dipentyl Phthalate (DPENP)	131-18-0	0.1	%	0.005	ND	ND
Dihexyl Phthalate (DHEXP/ DnHP)	84-75-3	0.1	%	0.005	ND	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	0.1	%	0.005	ND	ND
Conclusion					Pass	Pass



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Remark:

The test results A1 are taken from report SHA24-0171726-0001.C002(A2).
 The test results A2 are taken from report SHA24-0171726-0001.C006(A6).
 The test results A3 are taken from report SHA24-0171726-0001.C005(A5).
 The test results A4 are taken from report SHA24-0171726-0001.C009(A9).
 The test results A6 are taken from report SHA24-0192947-0001.C009(A9).
 The test results A8 are taken from report SHA24-0171726-0001.C008(A8).
 The test results A9 are taken from report SHA24-0171726-0001.C004(A4).
 The test results A10 are taken from report SHA24-0192947-0001.C004(A4).
 The test results A11 are taken from report SHA24-0171726-0001.C001(A1).
 The test results A14 are taken from report SHA24-0171726-0001.C023(A23).
 The test results A23 are taken from report SHA24-0171726-0001.C022(A22).
 The test results A29 are taken from report SHA24-0171726-0001.C024(A24).
 The test results A32 are taken from report SHA24-0171726-0001.C036(A36).
 The test results A33 are taken from report SHA24-0171726-0001.C035(A35).
 The test results A34 are taken from report SHA24-0171726-0001.C037(A37).
 The test results A38 (Except CPSIA section 101(a)(2) - Lead in accessible substrate materials, Total Lead Content (Non-Metal), ASTM F963-23, Clause 4.3.5.2 – Total Lead in Substrate Materials, ASTM F963-23, Clause 4.3.5.2 – Soluble Heavy Metal in Substrate Materials test result) are taken from report SHA24-0197358-0001.C012(A12).
 The test results A14+A15+A16 are taken from report SHA24-0197358-0002(A1+A2+A3).
 The test results A20+A21+A22 are taken from report SHA24-0197358-0003(A4+A5+A6).
 The test results A26+A27+A28 are taken from report SHA24-0197358-0004(A7+A8+A9).
 The test results A29+A30 are taken from report SHA24-0197358-0005(A10+A11).

Remark:

Test was conducted on composite of random parts of the item as per client's request.
 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.

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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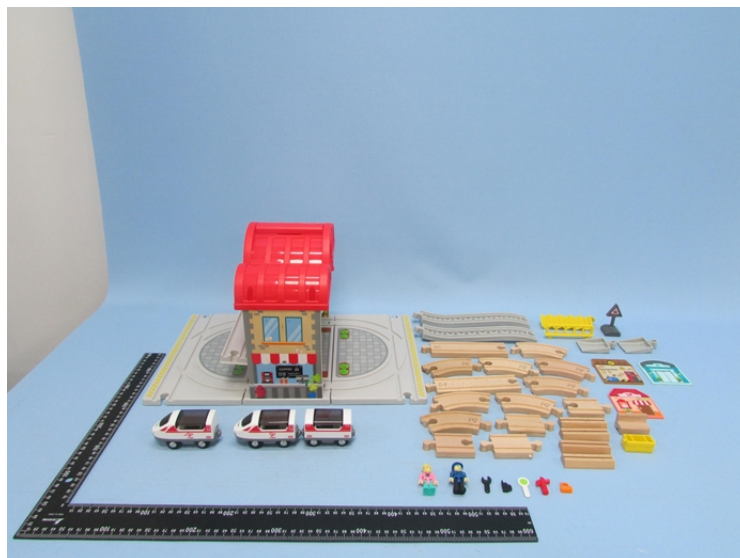
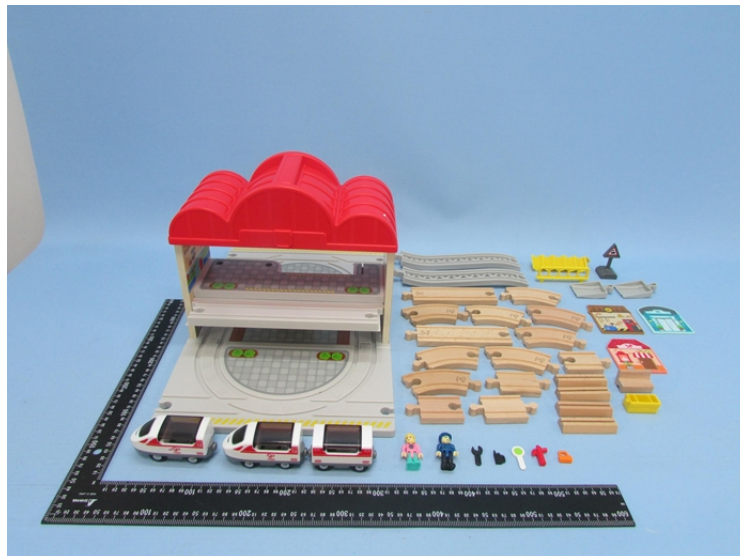
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*** End of Report ***



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