

Test Report

No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 1 of 24

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

Sample Description : Record & Play Train Station/ Eco Energy Train Bucket Set
Style / Item No. : E3884/ E3885
Country of Origin : CHINA
Country of Destination : GLOBAL
Labeled Age Grading : 3-8 YEARS
Requested Age Grading : 3Y-8Y
Client Reference Information : E3885K

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 : MAR. 10, 2025
Further Information Date : MAR. 20, 2025
Testing Period : MAR. 10, 2025 TO MAR. 25, 2025

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 section 14 [15 U.S.C. § 2063], (a)(5)(A) of the Consumer Product Safety Act, and Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.	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
CPSIA section 101(f) - Lead in paint/similar surface coating material	Pass
CPSIA section 101(a)(2) - Lead in accessible substrate materials	Pass
CONSUMER PRODUCT SAFETY COMMISSION-16 CFR Part 1307, Final Rule, amending CPSIA section 108, Prohibition on Sale of Certain Products Containing Specified Phthalates	Pass
Total Lead Content (Metal)	Pass
Total Lead Content (Non-Metal)	Pass
Total Lead Content (Coating)	Pass



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Test Report

No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 2 of 24

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

Cindy Chen

Cindy Chen
Authorized Signatory



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Test Report

No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 3 of 24

Test Result

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	
4.3.2	Manufacturing and Packaging of Food	Pass
4.3.3	Indirect Food Additives	Pass
4.3.4	Cosmetics	Pass
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)
4.3.6	Cosmetic, Liquids, Pastes, Putties, Gels, Powders and Item of Avian Feather Origin	N/A
4.3.7	Stuffing Materials	N/A
4.3.8	Phthalates	Pass (See Result Page)
4.4	Electrical/Thermal Energy	N/A
4.5	Sound-producing Toys	Pass
4.6.1	Small Objects	N/A
4.6.2	Mouth-actuated Toys	N/A
4.6.3	Labelling Requirements	Pass
4.7	Accessible Edges	Pass
4.8	Projections	Pass
4.9	Accessible Points	Pass
4.10	Wires or Rods	N/A
4.11	Nails and Fasteners	Pass
4.12	Plastic Film	Pass
4.13.1	Folding Mechanisms	N/A
4.13.2	Hinge-line Clearance	N/A (see remark)
	Remark: Not applicable because of the weight of part link with hinge is less than 0.5lb.	
4.14	Cords, Straps and Elastic	N/A
4.15	Stability and Over-load Requirements	N/A



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Test Report

No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 4 of 24

4.16	Confined Spaces	N/A
4.17	Wheels, Tires, and Axles	N/A
4.18	Holes, Clearance & Accessibility of Mechanisms	N/A
4.19	Simulated Protective Devices	N/A
4.20	Pacifiers	N/A
4.21	Projectile Toys	N/A
4.22	Teethers and Teething Toys	N/A
4.23	Rattles	N/A
4.24	Squeeze Toys	N/A
4.25	Battery-operated Toys	Pass
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed and Beanbag-type Toys	N/A
4.28	Stroller and Carriage Toys	N/A
4.29	Art Materials	N/A
4.30	Toy Gun Marking	N/A
4.31	Balloons	N/A
4.32	Certain Toys and Nearly Spherical Ends	N/A
4.33	Marbles	N/A
4.34	Balls	N/A
4.35	Pompoms	N/A
4.36	Hemispheric-shaped Objects	N/A
4.37	Yo Yo Elastic Tether Toys	N/A
4.38	Magnets	Pass
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A
4.40	Expanding Materials	N/A
4.41	Toy Chest	N/A
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
5.4	Aquatic Toys	N/A



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Test Report

No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 5 of 24

5.5	Crib & Playpen Toys	<u>N/A</u>
5.6	Mobile	<u>N/A</u>
5.7	Stroller and Carriage Toys	<u>N/A</u>
5.8	Toys Intended to be Assembled by an Adult	<u>N/A</u>
5.9	Simulated Protective Devices	<u>N/A</u>
5.10	Toys with Functional Sharp Edges and Sharp Points	<u>N/A</u>
5.11	Small Objects, Small Balls, Marbles, and Balloons	<u>Pass</u>
5.12	Art Materials	<u>N/A</u>
5.13	Electric Toys	<u>N/A</u>
5.14	Battery-operated Toys	<u>N/A</u>
5.15	Promotional Materials	<u>Pass</u>
5.16	Magnets	<u>N/A</u>
6	Instructional Literature	
6.2	Crib & Playpen Toys	<u>N/A</u>
6.3	Mobiles	<u>N/A</u>
6.4	Toys Intended to be Assembled by an Adult	<u>N/A</u>
6.5	Battery-operated Toys	<u>Pass</u>
6.6	Battery-powered Ride-on Toys	<u>N/A</u>
6.7	Toys in Contact with Food	<u>N/A</u>
6.8	Toy Chests	<u>N/A</u>
6.9	The instructional material for toys which require a manufacturer-supplied specialty or custom tool to access the battery(ies).	<u>N/A</u>
7	Producer's Markings	
7.1	Producer's Markings	<u>Pass</u>
7.2	Battery-powered Ride-on Toys	<u>N/A</u>
7.3	Toy Chests	<u>N/A</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>
8.12	Flexure Test	<u>N/A</u>
8.16	Tension Test for Pompoms	<u>N/A</u>
8.25	Magnet Test	<u>N/A</u>

N/A = Not Applicable

** Visual Examination



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Test Report

No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 6 of 24

Result Page:

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

Sample
Train set

Burning Rate (inch/sec)
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.

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

	No. of sample tested	Sharp point (16 CFR 1500.48)	Sharp edge (16 CFR 1500.49)	Small part (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



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Test Report

No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 7 of 24

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

Sample
Train set

Burning Rate (inch/sec)
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.

Tracking label per section 14 [15 U.S.C. § 2063], (a)(5)(A) of the Consumer Product Safety Act, and Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.

As specified in section 14 [15 U.S.C. § 2063], (a)(5)(A) of the Consumer Product Safety Act, 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.



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Test Report

No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 8 of 24

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA25-0048653-0001.C001	Black coating
SN2	A2	SHA25-0048653-0001.C002	White coating
SN3	A3	SHA25-0048653-0001.C003	Deep green coating
SN4	A4	SHA25-0048653-0001.C004	Green coating
SN5	A5	SHA25-0048653-0001.C005	Grey white coating
SN6	A6	SHA25-0048653-0001.C006	Blue coating
SN7	A7	SHA25-0048653-0001.C007	Colorful coating
SN8	A8	SHA25-0048653-0001.C008	Red PP
SN9	A9	SHA25-0048653-0001.C009	Grey ABS
SN10	A10	SHA25-0048653-0001.C010	Black ABS
SN11	A11	SHA25-0048653-0001.C011	Cream PVC
SN12	A12	SHA25-0048653-0001.C012	Blue ABS
SN13	A13	SHA25-0048653-0001.C013	Blue plastic
SN14	A14	SHA25-0048653-0001.C014	White ABS
SN15	A15	SHA25-0048653-0001.C015	Translucent plastic lamp
SN16	A16	SHA25-0048653-0001.C016	Light blue plastic button
SN17	A17	SHA25-0048653-0001.C017	Yellow plastic button
SN18	A18	SHA25-0048653-0001.C018	Green plastic button
SN19	A19	SHA25-0048653-0001.C019	White soft plastic sheet
SN20	A20	SHA25-0048653-0001.C020	Green plastic
SN21	A21	SHA25-0048653-0001.C021	Green ABS curved rail
SN22	A22	SHA25-0048653-0001.C022	Red HDPE bridge
SN23	A23	SHA25-0048653-0001.C023	Black PP box
SN24	A24	SHA25-0048653-0001.C024	Deep green hips lid
SN25	A25	SHA25-0048653-0001.C025	Grey PA wheels
SN26	A26	SHA25-0048653-0001.C026	Orange PP handle
SN27	A27	SHA25-0048653-0001.C027	Green PA track joint
SN28	A28	SHA25-0048653-0001.C028	Yellow ABS railing
SN29	A29	SHA25-0048653-0001.C029	Grey PP bridge pier/wheel
SN30	A30	SHA25-0048653-0001.C030	Orange HIPS orbit
SN31	A31	SHA25-0048653-0001.C031	Gray HIPS base
SN32	A32	SHA25-0048653-0001.C032	White pok
SN33	A33	SHA25-0048653-0001.C033	Red ABS fire hydrant
SN34	A34	SHA25-0048653-0001.C034	Grey rope
SN35	A35	SHA25-0048653-0001.C035	Natural colored solid wood
SN36	A36	SHA25-0048653-0001.C036	Natural colored plywood
SN37	A37	SHA25-0048653-0001.C037	Natural colored MDF
SN38	A38	SHA25-0048653-0001.C038	Silver metal screw
SN39	A39	SHA25-0048653-0001.C039	Silver metal components
SN40	A40	SHA25-0048653-0001.C040	Transparent plastic film with colored paper



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Test Report

No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 9 of 24

SN ID	Sample No.	SGS Sample ID	Description
SN41	A8+A9+A10	SHA25-0048653-0002	Red PP + Grey ABS + Black ABS
SN42	A14+A15+A16	SHA25-0048653-0003	White ABS + Translucent plastic lamp + Light blue plastic button
SN43	A17+A18+A19	SHA25-0048653-0004	Yellow plastic button + Green plastic button + White soft plastic sheet
SN44	A20+A21+A22	SHA25-0048653-0005	Green plastic + Green ABS curved rail + Red HDPE bridge
SN45	A23+A24+A25	SHA25-0048653-0006	Black PP box + Deep green hips lid + Grey PA wheels
SN46	A26+A27+A28	SHA25-0048653-0007	Orange PP handle + Green PA track joint + Yellow ABS railing
SN47	A29+A30+A31	SHA25-0048653-0008	Grey PP bridge pier/wheel + Orange HIPS orbit + Gray HIPS base
SN48	A32+A33	SHA25-0048653-0009	White pok + Red ABS fire hydrant

Remarks:

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

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
Total Lead (Pb)	90	mg/kg	20	ND
Conclusion				Pass

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	A8	A9	A10
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND



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Test Report

No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 10 of 24

Test Item(s)	Limit	Unit(s)	MDL	A8	A9	A10
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A11	A12	A13
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

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

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	A31
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A32	A33	A40
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	A38	A39
Total Lead (Pb)	100	mg/kg	20	ND	ND
Conclusion				Pass	Pass



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Test Report

No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 11 of 24

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	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	A4	A5	A6
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	A7
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 A1 is 24.4mg, sample A2 is 14.2mg, sample A3 is 36.8mg, sample A4 is 57.7mg, sample A5 is 22.5mg, sample A6 is 28.1mg, sample A7 is 29.0mg.



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Test Report

No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 12 of 24

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	A8	A9	A10
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	A11	A12	A13
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	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
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



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Test Report

No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 13 of 24

Test Item(s)	Limit	Unit(s)	MDL	A17	A18	A19
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
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



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Test Report

No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 14 of 24

Test Item(s)	Limit	Unit(s)	MDL	A29	A30	A31
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	A35	A36	A37
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	A40
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 A13 is 60.8mg, sample A14 is 78.7mg, sample A16 is 28.0mg, sample A17 is 22.0mg, sample A18 is 28.2mg, sample A20 is 53.4mg, sample A33 is 79.7mg.



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Test Report

No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 15 of 24

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	A40	A8+A9+A10	A14+A15+A16
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	A17+A18+A19	A20+A21+A22	A23+A24+A25
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



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Test Report

No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 16 of 24

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A17+A18 +A19	A20+A21 +A22	A23+A24 +A25
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A26+A27 +A28	A29+A30 +A31	A32+A33
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

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
Lead(Pb)	0.009	%	0.0020	ND
Conclusion				Pass



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Test Report

No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 17 of 24

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
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	A8	A9	A10
Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A11	A12	A13
Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

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 Report

No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 18 of 24

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	A31
Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A32	A33	A40
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	A38	A39
Lead (Pb)	100	mg/kg	20	ND	ND
Conclusion				Pass	Pass

CONSUMER PRODUCT SAFETY COMMISSION-16 CFR Part 1307, Final Rule, amending CPSIA section 108, Prohibition on Sale of Certain Products Containing Specified 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	A40	A8+A9+A10	A14+A15+A16
Benzyl Butyl Phthalate (BBP)	85-68-7	1000	mg/kg	50	ND	ND	ND
Dibutyl Phthalate (DBP)	84-74-2	1000	mg/kg	50	ND	ND	ND
Dicyclohexyl Phthalates (DCHP)	84-61-7	1000	mg/kg	50	ND	ND	ND
Di(2-ethyl hexyl) Phthalate (DEHP)	117-81-7	1000	mg/kg	50	ND	ND	ND
Di-n-hexyl Phthalates (DHEXP/ DnHP)	84-75-3	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	84-69-5	1000	mg/kg	50	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	1000	mg/kg	50	ND	ND	ND



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Test Report

No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 19 of 24

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A40	A8+A9+A10	A14+A15+A16
Dipentyl Phthalates (DPENP)	131-18-0	1000	mg/kg	50	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A17+A18+A19	A20+A21+A22	A23+A24+A25
Benzyl Butyl Phthalate (BBP)	85-68-7	1000	mg/kg	50	ND	ND	ND
Dibutyl Phthalate (DBP)	84-74-2	1000	mg/kg	50	ND	ND	ND
Dicyclohexyl Phthalates (DCHP)	84-61-7	1000	mg/kg	50	ND	ND	ND
Di(2-ethyl hexyl) Phthalate (DEHP)	117-81-7	1000	mg/kg	50	ND	ND	ND
Di-n-hexyl Phthalates (DHEXP/ DnHP)	84-75-3	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	84-69-5	1000	mg/kg	50	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	1000	mg/kg	50	ND	ND	ND
Dipentyl Phthalates (DPENP)	131-18-0	1000	mg/kg	50	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A26+A27+A28	A29+A30+A31	A32+A33
Benzyl Butyl Phthalate (BBP)	85-68-7	1000	mg/kg	50	ND	ND	ND
Dibutyl Phthalate (DBP)	84-74-2	1000	mg/kg	50	ND	ND	ND
Dicyclohexyl Phthalates (DCHP)	84-61-7	1000	mg/kg	50	ND	ND	ND
Di(2-ethyl hexyl) Phthalate (DEHP)	117-81-7	1000	mg/kg	50	ND	ND	ND
Di-n-hexyl Phthalates (DHEXP/ DnHP)	84-75-3	1000	mg/kg	50	ND	ND	ND



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Test Report

No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 20 of 24

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A26+A27 +A28	A29+A30 +A31	A32+A33
Diisobutyl Phthalates (DIBP)	84-69-5	1000	mg/kg	50	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	1000	mg/kg	50	ND	ND	ND
Dipentyl Phthalates (DPENP)	131-18-0	1000	mg/kg	50	ND	ND	ND
Conclusion					Pass	Pass	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	A38	A39
Lead(Pb)	40	mg/kg	20	ND	ND
Conclusion				Pass	Pass

Notes:

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

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	A8	A9	A10
Lead(Pb)	40	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A11	A12	A13
Lead(Pb)	40	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

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



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Test Report

No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 21 of 24

Test Item(s)	Limit	Unit(s)	MDL	A20	A21	A22
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	A31
Lead(Pb)	40	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A32	A33	A40
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.

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
Lead(Pb)	40	mg/kg	20	ND
Conclusion				Pass

Notes:

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

Remark:

The test results A4 are taken from report SHA25-0043836-0001.C001(A1).

The test results A36 are taken from report SHA25-0043836-0001.C003(A3).



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Test Report

No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 22 of 24

The test results A40 (Except 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, CPSIA section 101(a)(2) - Lead in accessible substrate materials, Total Lead Content (Non-Metal) test result) are taken from report SHA25-0048677-0001.C024(A24).

The test results A8+A9+A10 are taken from report SHA25-0048677-0002(A1+A2+A3).

The test results A14+A15+A16 are taken from report SHA25-0048677-0003(A4+A5+A6).

The test results A17+A18+A19 are taken from report SHA25-0048677-0004(A7+A8+A9).

The test results A20+A21+A22 are taken from report SHA25-0048677-0005(A10+A11+A12).

The test results A23+A24+A25 are taken from report SHA25-0048677-0006(A13+A14+A15).

The test results A26+A27+A28 are taken from report SHA25-0048677-0007(A16+A17+A18).

The test results A29+A30+A31 are taken from report SHA25-0048677-0008(A19+A20+A21).

The test results A32+A33 are taken from report SHA25-0048677-0009(A22+A23).

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

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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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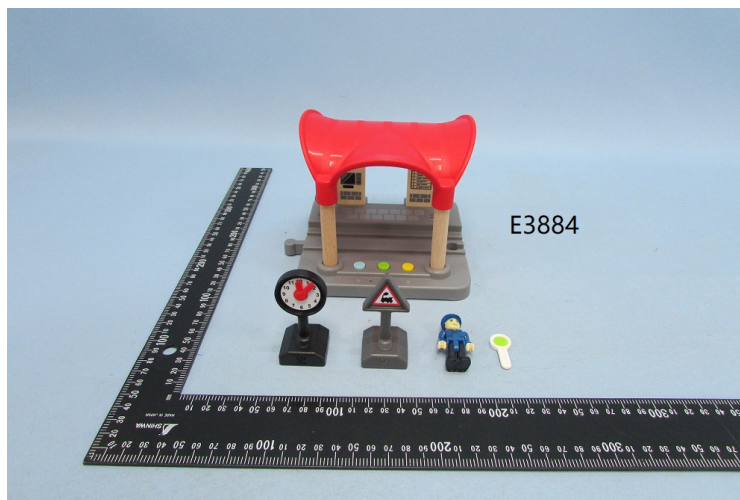
Test Report

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No.: SHHL250301157501TY

Date: APR. 17, 2025

Page 23 of 24



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