



中国认可
国际互认
检测
TESTING
CNAS L2929

Test Report

No.: SZHL250900379602TY

Date: OCT 09, 2025

Page 1 of 20

HAPPY ARTS&CRAFTS(NINGBO)CO.,LTD HAPE INTERNATIONAL (NINGBO) LTD
9-27 NANHAI ROAD, DAGANG INDUSTRIAL CITY, BEILUN, NINGBO, CHINA PC:315800

The following samples were submitted and identified by/on behalf of the client as:

Sample Descriptions : E3607_SWEET WALKS DOLL STROLLER
E3608_SWEET DREAMS DOLL'S BED
E3609_SWEET TREATS DOLL HIGH CHAIR
Item No.(s) : E3607 E3608 E3609
Country of Origin : China
Country of Destination : Global
Client reference information : E3607A,E3608A,E3609A
Labeled Age Grading : 2-8 YEARS
Requested Age Grading : 2-8Y

SGS Order No : SZHL2509003796TY
Age Group Assessed by SGS As Per Age : OVER 2 YEARS
Guideline
Age Group Applied in Testing : OVER 2 YEARS
Sample Receiving Date : SEP 23, 2025
Testing Period : SEP 23, 2025 TO OCT 09, 2025



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Selected test(s) as requested by the client, please refer to test result page(s) for details:

Test Requested		Conclusion
1	With reference to the test requirement of ASTM F963-23 Standard Consumer Safety Specification on Toy Safety. (Except test to tools)	--
	ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Physical & Mechanical Test	PASS
	ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Flammability Test	PASS
2	For compliance with test requirement of the Physical & Mechanical, Flammability test requirement of Title 16, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A. (Except test to tools)	--
	Physical and mechanical tests consisting US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 and US CPSC 16 CFR 1501: -US CPSC 16 CFR 1500.48 – Technical requirements for determining a sharp point in toys and other articles intended for use by children under 8 years of ages -US CPSC 16 CFR 1500.49 – Technical requirements for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age -US CPSC 16 CFR 1501 – Method for identifying toys and other articles intended for use by children under 3 years of age which present choking, aspiration, or ingestion hazards because of small parts	PASS
	US CPSC 16 CFR 1500.44 – Method for determining extremely flammable and flammable solids	PASS
3	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*
4	ASTM F963-23, Clause 4.3.5.1 – Soluble Heavy Metal in Paint and Similar Surface-coating Materials	PASS
5	ASTM F963-23, Clause 4.3.5.2 – Soluble Heavy Metal in Substrate Materials	PASS
6	ASTM F963-23, Clause 4.3.5.1 – Total Lead in Paint and Similar Surface-coating Materials	PASS



Test Report

No.: SZHL250900379602TY

Date: OCT 09, 2025

Page 3 of 20

Test Requested		Conclusion
7	ASTM F963-23, Clause 4.3.5.2 – Total Lead in Substrate Materials	PASS
8	ASTM F963-23, Clause 4.3.8 – Phthalates	PASS
9	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
10	CPSIA section 101(f) - Lead in paint/similar surface coating material	PASS
11	CPSIA section 101(a)(2) - Lead in accessible substrate materials	PASS
12	Total Lead Content	PASS

Remark: Test item (s) with “*” is (are) not accredited by CNAS.

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS-CSTC Standards Technical Services Ltd. Shenzhen Branch



Sun Enxu, Aaron
Dept. Manager
CNAS Approved Signatory



Tang Yanwei, Lynn
Senior Engineer
CNAS Approved 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	Test Item	Result
4	Safety Requirements	
4.1	Material Quality	Pass
4.2	Flammability for solids and soft toys	Pass (See result page)
4.2	Flammability for fabrics	NA
4.3	Toxicology	--
4.3.2	Manufacturing And Packaging Of Food	NA
4.3.4	Cosmetics	NA
4.3.6.3	Cosmetics, Liquids, Pastes, Putties, Gels, Powders, And Items Of Avian Feather Origin	NA
4.3.6.4	Cosmetics, Liquids, Pastes, Putties, Gels And Powders	NA
4.3.7	Stuffing Materials	Pass
4.4	Electrical/Thermal Energy	NA
4.5	Sound-producing Toys	Pass
4.6.1	Small Objects	Pass
4.6.2	Mouth-actuated Toys	NA
4.6.3	Labelling Requirements	NA
4.7	Accessible Edges	Pass
4.8	Projections	Pass
4.9	Accessible Points	Pass
4.10	Wires Or Rods	NA
4.11	Nails And Fasteners	Pass
4.12	Plastic Film	NA
4.13.1	Folding Mechanisms	NA
4.13.2	Hinge-line Clearance	NA


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Test Report

No.: SZHL250900379602TY

Date: OCT 09, 2025

Page 5 of 20

Clause	Test Item	Result
4.14	Cords, Straps, And Elastics	NA
4.15	Stability And Over-load Requirements	NA
4.16	Confined Spaces	NA
4.17	Wheels, Tires, And Axles	Pass
4.18	Holes, Clearance, And Accessibility Of Mechanisms	NA
4.19	Simulated Protective Devices	NA
4.20	Pacifiers	NA
4.21	Projectile Toys	NA
4.22	Teethers And Teething Toys	NA
4.23	Rattles	NA
4.24	Squeeze Toys	NA
4.25	Battery-operated Toys	NA
4.25.1	Battery-Operated Toys-Compartment Markings	NA
4.25.1.1	Battery-Operated Toys-Non Replaceable Batteries	NA
4.25.2	Battery-Operated Toys-Max DC Voltage	NA
4.25.3	Battery-Operated Toys-Reversed Batteries	NA
4.25.4	Battery-Operated Toys-Accessible Batteries	NA
4.25.4.1	Battery Accessibility For Toys Intended For Children Less Than 3 Years Old	NA
4.25.4.2	Battery Accessibility_Small Parts	NA
4.25.4.3	Battery Accessibility_Fastener Remain	NA
4.25.4.4	Battery Accessibility_Tool Instruction	NA
4.25.5	Batteries of different types or capacities shall not be mixed within any single electrical circuit	NA
4.25.6	Temperature of the battery surfaces shall not exceed 71°C	NA
4.25.6.1	Toys was operated under normal use condition	NA
4.25.6.2	Toys was operated with accessible moving parts locked	NA
4.25.7	Battery-Operated Toys-Battery Surface Temperature	NA
4.25.7.1	Rechargeable lithium ion or lithium ion polymer batteries operated toys - Surface Temperature(Normal)	NA



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Test Report

No.: SZHL250900379602TY

Date: OCT 09, 2025

Page 6 of 20

Clause	Test Item	Result
4.25.8	Battery-Operated Toys-Instruction	NA
4.25.9	Battery-Powered Ride-On Toys	NA
4.25.9.1	Maximum temperature measure on the insulation of any conductor	NA
4.25.9.2	Battery-powered Ride-on Toys_Risk Of Fire	NA
4.25.9.3	Battery-powered Ride-on Toys_Nuisance Tripping	NA
4.25.9.4	Battery-Powered Ride-On Toys_Switches	NA
4.25.9.5	User replaceable circuit protection devices in toys	NA
4.25.9.6	Battery-powered Ride-on Toys_Battery And Battery Chargers	NA
4.25.9.7	Wiring connected to the main / motor battery shall be short-circuited and shall not present the risk of fire	NA
4.25.9.8	Battery-powered Ride-on Toys_Strain Relief	NA
4.25.9.9	Battery-powered Ride-on Toys_Safety Labelling, Instructional Literature And Producer's Markings	NA
4.25.10	Toys That Contain Secondary Cells Or Secondary Batteries	NA
4.25.10.1	Toys That Contain Secondary Cells Or Secondary Batteries_Cells With Toys_Attestation	NA
4.25.10.2	Toys That Contain Secondary Cells Or Secondary Batteries_Batteries Standards	NA
4.25.10.3	Toys That Contain Secondary Cells Or Secondary Batteries_Enclosure	NA
4.25.10.4	Toys That Contain Secondary Cells Or Secondary Batteries_Charging	NA
4.25.10.5	Toys That Contain Secondary Cells Or Secondary Batteries_Maximum Charging Or Discharge Current, and cutoff voltage of lithium ion or lithium ion polymer cell(s)	NA
4.25.10.6	Toys That Contain Secondary Cells Or Secondary Batteries_Temperature Rises	NA
4.25.10.7	Test Certificate of Battery chargers or power adaptors, and Correct Polarity of External connectors to chargers and batteries	NA
4.25.10.8	Toys That Contain Secondary Cells Or Secondary Batteries_Short Circuit Protection	NA



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Test Report

No.: SZHL250900379602TY

Date: OCT 09, 2025

Page 7 of 20

Clause	Test Item	Result
4.26	Toys Intended To Be Attached To A Crib Or Playpen	NA
4.27	Stuffed And Beanbag-type Toys	Pass
4.28	Stroller And Carriage Toys	NA
4.29	Art Materials	NA
4.30	Toy Gun Marking	NA
4.31	Balloons	NA
4.32	Certain Toys With Nearly Spherical Ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-shaped Objects	NA
4.37	Yo Yo Elastic Tether Toys	NA
4.38	Magnets	NA
4.39	Jaw Entrapment In Handles And Steering Wheels	NA
4.40	Expanding Materials	NA
4.41	Toy Chests	NA
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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Test Report

No.: SZHL250900379602TY

Date: OCT 09, 2025

Page 8 of 20

Clause	Test Item	Result
5.4	Aquatic Toys	NA
5.5	Crib And Playpen Toys	NA
5.6	Mobiles	NA
5.7	Stroller And Carriage Toys	NA
5.8	Toys Intended To Be Assembled By An Adult	Pass
5.9	Simulated Protective Devices	NA
5.10	Toys With Functional Sharp Edges Or Points	NA
5.11	Small Objects, Small Balls, Marbles, and Balloons	NA
5.12	Art Materials	NA
5.13	Electric Toys	NA
5.14	Battery-operated Toys	NA
5.15	Promotional Materials	Pass
5.16	Magnets	NA
6	Instructional Literature	
6.2	Crib And Playpen Toys	NA
6.3	Mobiles	NA
6.4	Toys Intended To Be Assembled By An Adult	Pass
6.5	Battery-operated Toys	NA
6.6	Battery-powered Ride-on Toys	NA
6.7	Toys In Contact With Food	NA
6.8	Toy Chests	NA
6.9	The instructional material for toys which require a manufacturer-supplied specialty or custom tool to access the battery(ies)	NA
7	Producer's Markings	
7.1	Producer's Markings	Pass
7.2	Battery-powered Ride-on Toys	NA
7.3	Toy Chests	NA
8	Test Methods	
8.5	Normal Use Testing	Pass
8.7	Impact Test	Pass



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Test Report

No.: SZHL250900379602TY

Date: OCT 09, 2025

Page 9 of 20

Clause	Test Item	Result
8.8	Torque Test	Pass
8.9	Tension Test	Pass
8.10	Compression Test	Pass
8.12	Flexure Test	NA
8.16	Tension Test For Pompoms	NA

Result Page:

Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample	Burning Rate (inch/sec)
See sample description	0.1

*Burning rate has been rounded to the nearest one tenth of an inch per second.

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.

Clause	Test Item	Result
US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 AND US CPSC 16 CFR 1501	PHYSICAL AND MECHANICAL TESTS CONSISTING US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 AND US CPSC 16 CFR 1501	Pass (See result page)



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Test Report

No.: SZHL250900379602TY

Date: OCT 09, 2025

Page 10 of 20

Result

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	6	Pass	Pass	Pass
Impact test (16 CFR 1500.52b)	3	Pass	Pass	Pass
Bite test (16 CFR 1500.52c)	3	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	Pass
Tension test (16 CFR 1500.52f)	3	Pass	Pass	Pass
Compression test (16 CFR 1500.53g)	3	Pass	Pass	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

Clause	Test Item	Result
☒	Flammability	Pass (See result page)

Result data:

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

Sample	Burning Rate (inch/sec)
See sample description	0.1

*Burning rate has been rounded to the nearest one tenth of an inch per second.

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 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.

Clause	Test Item	Result
Section 103	Tracking Label (CPSIA 103)	Pass (See result page)

Result data:

As specified in 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.

- 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 Report

No.: SZHL250900379602TY

Date: OCT 09, 2025

Page 12 of 20

Test Result(s):

Test Part Description:

SN ID	Sample No.	Description
SN1	A2	Transparent lacquer coating on wood (Body)
SN2	A3	Black silicone rubber (Tire)
SN3	A4	Brown hardboard (Wheel)
SN4	A5	Light pink w/ white coating on wood (Wheel)
SN5	A6	Pink plastic (PA) (Wheel)
SN6	A7	Cream plywood (Body)
SN7	A8	Light pink plastic (Connector)
SN8	A9	Yellow colored series fabric w/ white fabric thread (Body)
SN9	A10	Green colored series fabric (Body)
SN10	A11	Red colored series fabric (Body)
SN11	A12	White fabric w/ cyan printing, cyan fabric thread (Body)
SN12	A13	White satin w/ black printing (Sewn-in label)
SN13	A14	Red w/ white woven (Sewn-in label)
SN14	A15	White hook and loop fastener
SN15	A16	Pink coating on wood (Body)
SN16	A17	White fabric w/ black printing (Body)
SN17	A18	Pink plastic (PP) (Backrest)
SN18	A19	White plastic sheet (Hook of fastener)
SN19	A21	White plastic (Inner)
SN20	A25	White polyfiber (Inner)
SN21	A26	Matt-white polyfiber (Inner)
SN22	A27	White felt (Inner)
SN23	A30	Silvery metal screw
SN24	A31	Silvery metal big screw
SN25	A32	Light silvery metal screw
SN26	A33	Dull silvery metal nut
SN27	A34	Bright silvery metal screw
SN28	A35	Bright silvery metal big screw
SN29	A36	Iridescent metal screw
SN30	A37	Silvery metal nut
SN31	A38	Silvery metal big nut
SN32	A2+A5+A16	Transparent lacquer coating on wood (Body) + Light pink w/ white coating on wood (Wheel) + Pink coating on wood (Body)
SN33	A3/A19	Black silicone rubber (Tire) w/ White plastic sheet (Hook of fastener)
SN34	A3/A19+A21	Black silicone rubber (Tire) w/ White plastic sheet (Hook of fastener) + White plastic (Inner)
SN35	A4+A7	Brown hardboard (Wheel) + Cream plywood (Body)
SN36	A6+A8+A18	Pink plastic (PA) (Wheel) + Light pink plastic (Connector) + Pink plastic (PP) (Backrest)



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Test Report

No.: SZHL250900379602TY

Date: OCT 09, 2025

Page 13 of 20

SN ID	Sample No.	Description
SN37	A12/A13/A17	White fabric w/ cyan printing, cyan fabric thread (Body) w/ White satinet w/ black printing (Sewn-in label) w/ White fabric w/ black printing (Body)
SN38	A29+A10+A11	Yellow colored series fabric (Body) + Green colored series fabric (Body) + Red colored series fabric (Body)

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 – 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	A2	A5	A16
Mass of trace amount	-	mg	-	/	/	/
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
Conclusion				Pass	Pass	Pass

Notes:

- (1) Results shown are of the adjusted analytical results.
- (2) ●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).
- (3) De-waxing was applied on test specimen.

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	A3	A4	A6
Mass of trace amount	-	mg	-	/	/	/
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



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Test Report

No.: SZHL250900379602TY

Date: OCT 09, 2025

Page 14 of 20

Test Item(s)	Limit	Unit(s)	MDL	A3	A4	A6
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
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A9
Mass of trace amount	-	mg	-	/	/	/
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
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A10	A11	A12
Mass of trace amount	-	mg	-	/	/	/
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
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A13	A14	A15
Mass of trace amount	-	mg	-	/	/	/
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
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A17	A18	A19
Mass of trace amount	-	mg	-	/	/	/



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Test Report

No.: SZHL250900379602TY

Date: OCT 09, 2025

Page 15 of 20

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

Test Item(s)	Limit	Unit(s)	MDL	A21	A25	A26
Mass of trace amount	-	mg	-	/	/	/
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
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A27
Mass of trace amount	-	mg	-	/
Soluble Lead(Pb)	90	mg/kg	5	ND
Soluble Antimony(Sb)	60	mg/kg	5	13
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
Conclusion				Pass

Notes:

- (1) Results shown are of the adjusted analytical results.
- (2) ●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).
- (3) De-waxing was applied on test specimen.



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Member of the SGS Group (SGS SA)

Test Report

No.: SZHL250900379602TY

Date: OCT 09, 2025

Page 16 of 20

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	A2+A5+A16
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	A3/A19+A21	A4+A7	A6+A8+A18
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A12/A13/A17	A29+A10+A11
Lead(Pb)	100	mg/kg	20	ND	ND
Conclusion				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	A30	A31	A32
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A33	A34	A35
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A36	A37	A38
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Report

No.: SZHL250900379602TY

Date: OCT 09, 2025

Page 17 of 20

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	A21	A3/A19	A6+A8+A18
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	A2+A5+A16
Lead(Pb)	0.009	%	0.0020	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/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A2+A5+A16
Lead(Pb)	90	mg/kg	20	ND
Conclusion				Pass



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Test Report

No.: SZHL250900379602TY

Date: OCT 09, 2025

Page 18 of 20

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	A3/A19+A 21	A4+A7	A6+A8+A 18
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A12/A13/ A17	A29+A10 +A11
Lead(Pb)	100	mg/kg	20	ND	ND
Conclusion				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	A30	A31	A32
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A33	A34	A35
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A36	A37	A38
Lead(Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Total Lead Content

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

Test Item(s)	Limit	Unit(s)	MDL	A2+A5+A16
Lead(Pb)	40	mg/kg	20	ND
Conclusion				Pass



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Test Report

No.: SZHL250900379602TY

Date: OCT 09, 2025

Page 19 of 20

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

Test Item(s)	Limit	Unit(s)	MDL	A3/A19+A21	A4+A7	A6+A8+A18
Lead(Pb)	40	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A12/A13/A17	A29+A10+A11
Lead(Pb)	40	mg/kg	20	ND	ND
Conclusion				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	A30	A31	A32
Lead(Pb)	40	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A33	A34	A35
Lead(Pb)	40	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A36	A37	A38
Lead(Pb)	40	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

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Test Report

No.: SZHL250900379602TY

Date: OCT 09, 2025

Page 20 of 20

Sample Picture (As received)



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