

Test Report

No.: SHHL2404017303TY

Date: APR. 26, 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 : MARS MISSION LAUNCH SET/ MARS EXPLORATION SET
Sample Quantity : 10 SETS
Style / Item No. : E3798/ E3799
Client Reference Information : E3798A/E3799A
Country of Origin : CHIAN
Country of Destination : GLOBAL
Labeled Age Grading : 3-8 YEARS
Requested Age Grading : 3Y-8Y

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 : APR. 11, 2024
Testing Period : APR. 11, 2024 TO APR. 26, 2024

Test Requested	Result
ASTM F963-23 Standard Consumer Safety Specification for Toy Safety	Pass
As Specified In Us Cpsc 16 Cfr 1500.44 – Method For Determining Extremely Flammable And Flammable Solids	Pass
US CPSC 16 CFR 1500.19 – Misbranded toys and other articles intended for use by children (Not misbranded toys or articles intended for use by children)	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
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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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 **	<u>Pass</u>
4.2	Flammability Test	<u>Pass</u>
4.3	Toxicology	
4.3.5	Heavy Elements	
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials	<u>Pass (See Result Page)</u>
4.3.5.2	Heavy Metal in Substrate Materials	<u>Pass (See Result Page)</u>
4.3.8	Phthalates	<u>Pass (See Result Page)</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	<u>N/A (See Remark)</u>
	Remark: Not applicable because of the weight of part link with hinge is less than 0.5lb (0.2kg).	
4.25	Battery-operated Toys	<u>Pass</u>
4.38	Magnets	<u>Pass</u>
5	Safety Labeling Requirements	
5.1	Federal Government Requirements	
5.1.1	Specific Labeling Requirement	<u>See Remark</u>
	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	<u>Pass</u>



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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>
5.15	Promotional Materials	<u>Pass</u>
6	Instructional Literature	
6.5	Battery-operated Toys	<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

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

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>
Mars Mission Launch Set/ Mars Exploration Set	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.

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 Rec'd& Normal Use (Sec 1500.50)	2	Pass	Pass	N/A
Impact test (16 CFR 1500.53b)	2	Pass	Pass	N/A
Bite test (16 CFR 1500.52c)	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)	2	Pass	Pass	N/A
Tension test (16 CFR 1500.53f)	2	Pass	Pass	N/A



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Compression test (16 CFR 1500.53g)

2

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

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

Sample

Mars Mission Launch Set/ Mars Exploration Set

Burning Rate (inch/sec)

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.

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.

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



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Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA24-0072384-0001.C001	Dark blue coating
SN2	A2	SHA24-0072384-0001.C002	Yellow coating
SN3	A3	SHA24-0072384-0001.C003	Black coating
SN4	A4	SHA24-0072384-0001.C004	White coating
SN5	A5	SHA24-0072384-0001.C005	Red coating
SN6	A6	SHA24-0072384-0001.C006	Orange coating
SN7	A7	SHA24-0072384-0001.C007	Blue coating
SN8	A8	SHA24-0072384-0001.C008	Silvery coating
SN9	A9	SHA24-0072384-0001.C009	Grey coating
SN10	A10	SHA24-0072384-0001.C010	Colorful coating
SN11	A11	SHA24-0072384-0001.C011	Colorful coating
SN12	A12	SHA24-0072384-0001.C012	Grey HDPE
SN13	A13	SHA24-0072384-0001.C013	Orange ABS
SN14	A14	SHA24-0072384-0001.C014	White ABS
SN15	A15	SHA24-0072384-0001.C015	Blue ABS
SN16	A16	SHA24-0072384-0001.C016	Yellow ABS
SN17	A17	SHA24-0072384-0001.C017	Grey ABS
SN18	A18	SHA24-0072384-0001.C018	Grey pp
SN19	A19	SHA24-0072384-0001.C019	Black plastic
SN20	A20	SHA24-0072384-0001.C020	Translucnet orange plastic wheel
SN21	A21	SHA24-0072384-0001.C021	Translucnet blue plastic
SN22	A22	SHA24-0072384-0001.C022	Translucnet green ABS
SN23	A23	SHA24-0072384-0001.C023	Translucnet orange ABS
SN24	A24	SHA24-0072384-0001.C024	Translucent plastic
SN25	A25	SHA24-0072384-0001.C025	Grey cord
SN26	A26	SHA24-0072384-0001.C026	Natural colored MDF
SN27	A27	SHA24-0072384-0001.C027	Natural colored solid wood
SN28	A28	SHA24-0072384-0001.C028	Silvery metal screw
SN29	A29	SHA24-0072384-0001.C029	Silvery metal felloe
SN30	A30	SHA24-0072384-0001.C030	Silvery metal Iron magnet
SN31	A12+A13+A14	SHA24-0072384-0002	Grey HDPE + Orange ABS + White ABS
SN32	A15+A16+A17	SHA24-0072384-0003	Blue ABS + Yellow ABS + Grey ABS
SN33	A18+A19+A20	SHA24-0072384-0004	Grey pp + Black plastic + Translucnet orange plastic wheel
SN34	A21+A22	SHA24-0072384-0005	Translucnet blue plastic + Translucnet green ABS
SN35	A23+A24	SHA24-0072384-0006	Translucnet orange ABS + Translucent plastic

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%



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- (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)	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
Lead (Pb)	0.009	%	0.0020	ND	ND
Conclusion				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



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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
Lead(Pb)	0.009	%	0.0020	ND	ND
Conclusion				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	A28	A29	A30
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.

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	A12	A13	A14
Lead (Pb)	0.01	%	0.0020	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A15	A16	A17
Lead (Pb)	0.01	%	0.0020	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A18	A19	A20
Lead (Pb)	0.01	%	0.0020	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Unit(s)	MDL	A21	A22	A23
Lead (Pb)	0.01	%	0.0020	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A24
Lead (Pb)	0.01	%	0.0020	ND
Conclusion				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	A28	A29	A30
Lead (Pb)	0.01	%	0.0020	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	A12	A13	A14
Lead(Pb)	40	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A15	A16	A17
Lead(Pb)	40	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A18	A19	A20
Lead(Pb)	40	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A21	A22	A23
Lead(Pb)	40	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass



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Test Item(s)	Limit	Unit(s)	MDL	A24
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 4.3.5.1 – 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
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	A4*	A5*	A6
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	A7*	A8*	A9*
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	-	-	-



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Test Item(s)	Limit	Unit(s)	MDL	A7•	A8•	A9•
Soluble Selenium(Se)	500	mg/kg	10	-	-	-
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A10•	A11•
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

Notes:

- (1) Results shown are of the adjusted analytical results.
- (2) Mass of trace amount of sample A3 is 28.3mg, sample A6 is 27.1mg.
- (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).

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



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

Notes:

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

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	A12+A13 +A14	A15+A16 +A17	A18+A19 +A20
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	A21+A22	A23+A24
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



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A21+A22	A23+A24
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

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	A12	A13	A14
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	A15	A16	A17
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	A18	A19	A20
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A18	A19	A20
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	A21	A22	A23
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	A24	A25	A26
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	A27
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



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Notes:

- (1) Results shown are of the adjusted analytical results.
- (2) Mass of trace amount of sample A14 is 75.3mg, sample A19 is 88.2mg, sample A25 is 52.8mg.

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

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

Test Item(s)	Limit	Unit(s)	MDL	A28	A29	A30
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

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

Test Item(s)	Limit	Unit(s)	MDL	A12	A13	A14
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A15	A16	A17
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A18	A19	A20
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A21	A22	A23
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

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



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

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.

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

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