



**Test Report**

**No.: SHHL2109048836TY**

**Date: SEP 26, 2021**

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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 : POLAR ANIMAL TACTILE PUZZLE/ FOREST ANIMAL TACTILE PUZZLE/ FARM ANIMAL BLOCK PUZZLE/ NUMBER PEG PUZZLE/ ALPHABET PEG PUZZLE/ CHUNKY CLOCK PUZZLE

Sample Quantity : 18 SETS

Style / Item No. : E1620/ E1621/ E1618/ E1404/ E1505/ E1622

Country of Origin : CHINA

Country of Destination : GLOBAL

Labeled Age Grading : E1620: 24M+, E1621: 24M+, E1618: 24M+, E1404: 36M+, E1505: 36M+, E1622: 3Y+

Requested Age Grading : E1620: 24M+, E1621: 24M+, E1618: 24M+, E1404: 24M+, E1505: 3Y+, E1622: 3Y+

ASIN No. : B071WSCPW6/ B071G8BMTZ/ B071WSC9S1/ B071WSCPWF/ B071G8BP5G/ B072QLDP7X

Client Reference Information : E1620A/ E1621A/ E1618A/ E1404A/ E1505B/ E1622A/ E8255,E8255A  
\*\*\*\*\*

Age Group Assessed as Per Age Guideline : E1620: 1+YEARS, E1621: 1+YEARS, E1618: 2+YEARS, E1404: 2+YEARS, E1505: 2+YEARS, E1622: 2+YEARS  
E1620: 1+YEARS, E1621: 1+YEARS, E1618: 2+YEARS,

Age Group Applied in Testing : E1404: 2+YEARS, E1505: 2+YEARS, E1622: 2+YEARS

Sample Receiving Date : SEP 07, 2021

Further Information Date : SEP 09, 2021

Testing Period : SEP 07, 2021 TO SEP 26, 2021

<u>Test Requested</u>	<u>Result</u>
ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	<u>Pass</u>
Physical and mechanical tests consisting US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 and US CPSC 16 CFR 1501	<u>Pass</u>
US CPSC 16 CFR 1500.19 – Misbranded toys and other articles intended for use by children	<u>N/A</u>
US CPSC 16 CFR 1500.44 – Method for determining extremely flammable and flammable solids	<u>Pass</u>



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

Lead (Pb) Pass

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

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

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

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

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



*Jessie Zhou*

Jessie Zhou  
Authorized Signatory



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Result:

**ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY**

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

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	Safety Requirements	
4.1	Material Quality **	<u>Pass</u>
4.2	Flammability Test	<u>Pass (See Detail of test result)</u>
4.3	Toxicology	
4.3.5	Heavy Elements	
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials	<u>Pass (See Detail of test result)</u>
4.3.5.2	Heavy Metal in Substrate Materials	<u>Pass (See Detail of test result)</u>
4.6.1	Small Objects	<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>
4.13.2	Hinge-Line Clearance (Remark: Not applicable because of the weight of part link with hinge is less than 0.5lb.)	<u>N/A</u>
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	<u>Pass</u>
5.16	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>

N/A = Not Applicable

\*\* Visual Examination



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Detail of test result:

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

<u>Sample</u> WOODEN PUZZLES SETS	<u>Burning Rate (inch/sec)</u> DNI
--------------------------------------	---------------------------------------

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.

DNI = Did Not Ignite

**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</u>	<u>Sharp point</u>	<u>Sharp edge</u>	<u>Small part</u>
	<u>sample</u>	<u>(16 CFR 1500.48)</u>	<u>(16 CFR 1500.49)</u>	<u>(16 CFR 1501)</u>
E1620	<u>tested</u>			
E1621				
As received	2	Pass	N/A	Pass
Impact test (16 CFR 1500.51b)	2	Pass	N/A	Pass
Bite test (16 CFR 1500.52c)	2	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	N/A	Pass
Tension test (16 CFR 1500.53f)	2	Pass	N/A	Pass
Compression test (16 CFR 1500.53g)	2	Pass	N/A	Pass

	<u>No. of</u>	<u>Sharp point</u>	<u>Sharp edge</u>	<u>Small part</u>
	<u>sample</u>	<u>(16 CFR 1500.48)</u>	<u>(16 CFR 1500.49)</u>	<u>(16 CFR 1501)</u>
E1618	<u>tested</u>			
As received	1	Pass	N/A	Pass
Impact test (16 CFR 1500.52b)	1	Pass	N/A	Pass
Bite test (16 CFR 1500.52c)	1	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	N/A	Pass
Tension test (16 CFR 1500.53f)	1	Pass	N/A	Pass
Compression test (16 CFR 1500.53g)	0	N/A	N/A	N/A



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	<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>
E1404				
E1504				
E1622				
As received	3	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 1500.53f)	3	Pass	Pass	Pass
Compression test (16 CFR 1500.53g)	3	Pass	Pass	Pass

N/A = Not Applicable

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

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

Appropriate warning according to 16 CFR 1500.19 was found on the principle display panel of the product's packaging..... Not Applicable

**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>
WOODEN PUZZLES SETS	DNI

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.

DNI = Did Not Ignite



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Notes:

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

- Tracking label found on the packaging:

E1620: P2122401268 NBCN 06/2021  
E1621: P2122401250 NBCN 06/2021  
E1618: P2122401160 NBCN 06/2021  
E1404: S2084200160 NBCN 01/2021  
E1505: S2084200210 NBCN 03/2021  
E1622: P2122401618 NBCN 07/2021

- Tracking label found on the bottom of the product:

E1620: P2122401268 NBCN 06/2021  
E1621: P2122401250 NBCN 06/2021  
E1618: P2122401160 NBCN 06/2021  
E1404: S2084200160 NBCN 01/2021  
E1505: S2084200210 NBCN 03/2021  
E1622: P2122401618 NBCN 07/2021

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

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



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Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA21-206016.001	Natural color wood
SN2	SHA21-206016.002	Colorful coating (E1618)
SN3	SHA21-206016.003	Colorful coating on plywood (E1621)
SN4	SHA21-206016.004	Brown coating(Bear)
SN5	SHA21-206016.005	Brown plush
SN6	SHA21-206016.006	Orange coating(Fox)
SN7	SHA21-206016.007	Orange plush
SN8	SHA21-206016.008	Cyan coating(Owl)
SN9	SHA21-206016.009	Cyan fleece
SN10	SHA21-206016.010	Beige coating(Hedgehog)
SN11	SHA21-206016.011	Dk.Brown rope
SN12	SHA21-206016.012	Dk.Red coating(Reindeer)
SN13	SHA21-206016.013	Dk.Red fleece
SN14	SHA21-206016.014	Natural color plywood
SN15	SHA21-206016.015	Colorful coating on plywood (E1505)
SN16	SHA21-206016.016	Colorful coating on plywood (E1404)
SN17	SHA21-206016.017	Cream PC handle
SN18	SHA21-206016.018	Colorful coating on plywood (E1620)
SN19	SHA21-206016.019	White coating(Arctic hare & Polar bear)
SN20	SHA21-206016.020	White plush
SN21	SHA21-206016.021	Grey coating(Seal)
SN22	SHA21-206016.022	Grey leatheriod
SN23	SHA21-206016.023	Black fleece
SN24	SHA21-206016.024	White long plush
SN25	SHA21-206016.025	Black coating(Orca & Penguin)
SN26	SHA21-206016.026	Black leatheriod
SN27	SHA21-206016.027	Brown MDF
SN28	SHA21-206016.028	Red plastic
SN29	SHA21-206016.029	Turquosie coating
SN30	SHA21-206016.030	Yellowgreen coating
SN31	SHA21-206016.031	Red coating
SN32	SHA21-206016.032	Colorful coating on plywood (E1622)



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Remarks :

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

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

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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>017</u>	<u>028</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND

**Lead (Pb)**

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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	<u>003</u>	<u>004</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	<u>008</u>	<u>010</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>012</u>	<u>015</u>	<u>016</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>017</u>	<u>018</u>	<u>019</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>021</u>	<u>025</u>	<u>028</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>029</u>	<u>030</u>	<u>031</u>
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Lead (Pb)	40	mg/kg	2	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

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

Notes :

The maximum permissible limit is quoted from the client requirement.

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

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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	<u>003</u>	<u>004</u>
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	<u>008</u>	<u>010</u>
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>012</u>	<u>015</u>	<u>016</u>
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>018</u>	<u>019</u>	<u>021</u>
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>025</u>	<u>029</u>	<u>030</u>
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>031</u>	<u>032</u>
Total Lead (Pb)	90	mg/kg	20	ND	ND

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

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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	<u>003</u>	<u>004</u>
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Lead (Pb)	0.009	%	0.002	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	<u>008</u>	<u>010</u>
Lead (Pb)	0.009	%	0.002	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>012</u>	<u>015</u>	<u>016</u>
Lead (Pb)	0.009	%	0.002	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>018</u>	<u>019</u>	<u>021</u>
Lead (Pb)	0.009	%	0.002	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>025</u>	<u>029</u>	<u>030</u>
Lead (Pb)	0.009	%	0.002	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>031</u>	<u>032</u>	
Lead (Pb)	0.009	%	0.002	ND	ND	
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	

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

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

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

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

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

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

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



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Test Item(s)	Limit	Unit	MDL	016	017	018
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND
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

Test Item(s)	Limit	Unit	MDL	019	020	021
Soluble Lead (Pb)	90	mg/kg	5	-	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	-	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	-	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	-	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	-	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	-	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	-	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	-	ND	ND

Test Item(s)	Limit	Unit	MDL	022	023	024
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND



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

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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>031</u>	<u>032</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND



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Notes :

- (1) Results shown are of the adjusted analytical results.
- (2) Mass of trace amount of sample 002 is 13.9mg, sample 004 is 31.7mg, sample 005 is 78.6mg, sample 007 is 82.0mg, sample 008 is 26.4mg, sample 009 is 34.4mg, sample 010 is 60.5mg, sample 011 is 77.6mg, sample 012 is 67.4mg, sample 013 is 83.0mg, sample 015 is 30.7mg, sample 016 is 21.4mg, sample 017 is 40.1mg, sample 018 is 36.0mg, sample 020 is 93.4mg, sample 021 is 31.7mg, sample 022 is 70.7mg, sample 024 is 81.3mg, sample 025 is 28.6mg, sample 026 is 38.6mg, sample 029 is 40.7mg, sample 030 is 25.0mg, sample 031 is 31.5mg, sample 032 is 21.7mg.
- (3) As received, the test portion of samples 006, 019 from one whole sample are less than 10mg, therefore such components were not tested for certain migration elements, as specified in ASTM F963-17 Clause 8.3.3.6 (2) – Selection of Test Portions

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

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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	<u>003</u>	<u>004</u>
Lead (Pb)	0.009	%	0.002	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	<u>008</u>	<u>010</u>
Lead (Pb)	0.009	%	0.002	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>012</u>	<u>015</u>	<u>016</u>
Lead (Pb)	0.009	%	0.002	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>018</u>	<u>019</u>	<u>021</u>
Lead (Pb)	0.009	%	0.002	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>025</u>	<u>029</u>	<u>030</u>
Lead (Pb)	0.009	%	0.002	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>031</u>	<u>032</u>
Lead (Pb)	0.009	%	0.002	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>

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



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

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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>028</u>
Lead (Pb)	0.01	%	0.002	ND
<b>Conclusion</b>				<b>PASS</b>

**Remark:**

- The test results 001 are taken from report SHA21-129084.001
- The test results 004, 010, 012, 017, 027 are taken from report SHA21-205049.020, 025, 014, 013, 023
- The test results 006, 019, 021, 028 are taken from report SHA21-178238.003, 007, 008, 026
- The test results 008, 029 are taken from report SHA21-205582.010, 009
- The test results 014 are taken from report SHA21-138533.002
- The test results 031 are taken from report SHA21-194652.004

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2. The declaration of conformity is based on non-binary acceptance decision rules with guard band, and the guard band length parameter is 0. When the measured value falls in the guard band limit, the declaration of conformity is "Conditional PASS" or "Conditional FAIL".



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**Test Report**  
Sample Photo:

No.: SHHL2109048836TY

Date: SEP 26, 2021

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