



Test Report

No.: SHHL2109048826TY

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 : BIG NOSE PET PUZZLE/ BIG NOSE JUNGLE PUZZLE/
CHUNKY TOY PUZZLE/ DYNAMIC VEHICLE PUZZLE/
GEOMETRY PUZZLE/ SOUND PUZZLE-FARM
Sample Quantity : 36 SETS
Style / Item No. : E1309/ E1310/ E1452/ E1607/ E1615/ E1614
Country of Origin : CHINA
Country of Destination : GLOBAL
Labeled Age Grading : E1309, E1310, E1452: 12 M+; E1607, E1615, E1614: 18 M+
Requested Age Grading : E1309, E1310, E1452: 12 M+; E1607, E1615, E1614: 18 M+
ASIN No. : B07217G7JG/ B071WSC9RW/ B072MNJSWS/ B07217G826/
B071X3WGS5/ B071GKPGV7
Client Reference Information : E1309A/ E1310A/ E1452A/ E1607A/ E1615A/ E1614A
Age Group Assessed as Per Age Guideline : 12+ MONTHS
Age Group Applied in Testing : 12+ MONTHS
Sample Receiving Date : SEP 07, 2021
Testing Period : SEP 07, 2021 TO SEP 26, 2021

Table with 2 columns: Test Requested, Result. Rows include ASTM F963-17 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 (Not Applicable), US CPSC 16 CFR 1500.44 – Method for determining extremely flammable and flammable solids (Pass), Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children’s products (Pass), Lead (Pb) (Pass).



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Part 1303, Title 16, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A. requirement-Lead	<u>Pass</u>
CPSIA section 101(f)-Lead in paint/similar surface coating material	<u>Pass</u>
CPSIA section 101(a)(2)-Lead in accessible substrate materials (Non-Metal)	<u>Pass</u>

\*\*\*\*\* 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>
4.5	Sound-Producing Toys	<u>Pass</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>
4.14	Cords, Straps and Elastic	<u>Pass</u>
4.25	Battery-Operated Toys	<u>Pass</u>
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	<u>Pass</u>
5.16	Promotional Materials	<u>Pass</u>
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>

\*\* 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>	<u>Burning Rate (inch/sec)</u>
PUZZLE	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

IBE = Ignite But Extinguished

**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 received	6	Pass	Pass	Pass
Impact test (16 CFR 1500.51b)	6	Pass	Pass	Pass
Bite test (16 CFR 1500.52c)	6	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)	6	Pass	Pass	Pass
Tension test (16 CFR 1500.53f)	6	Pass	Pass	Pass
Compression test (16 CFR 1500.53g)	6	Pass	Pass	Pass

N/A = Not Applicable

**US CPSC 16 CFR 1500.19 – MISBRANDED TOYS AND OTHER ARTICLES INTENDED FOR USE BY CHILDREN**  
**Not Applicable**



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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>
PUZZLE	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

TRACKING LABEL PER CONSUMER PRODUCT SAFETY IMPROVEMENT ACT (CPSIA) OF 2008 SECTION 103 TRACKING LABELS FOR CHILDREN’S PRODUCTS

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:

E1309: S2184200096 NBCN 08/2021	E1310: S2184200098 NBCN 08/2021
E1452: S1784200191 NBCN 1017	E1607: S2084200170 NBCN 12/2021
E1615: P2122401221 NBCN 05/2021	E1614: P2122401343 NBCN 06/2021

- Tracking label found on the bottom of the product:

E1309: S2184200096 NBCN 08/2021	E1310: S2184200098 NBCN 08/2021
E1452: S1784200191 NBCN 1017	E1607: S2084200170 NBCN 12/2021
E1615: P2122401221 NBCN 05/2021	E1614: P2122401343 NBCN 06/2021

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 Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA21-205049.001	Natural color plywood
SN2	SHA21-205049.002	Natural color wood
SN3	SHA21-205049.003	Colorful coating on base(E1614)
SN4	SHA21-205049.004	Black coating on base
SN5	SHA21-205049.005	Red coating(Farmer)
SN6	SHA21-205049.006	Orange coating(Dog)
SN7	SHA21-205049.007	Turquoise coating(Cat)
SN8	SHA21-205049.008	Yellow green coating(sheep)
SN9	SHA21-205049.009	Pink red coating(Cow)
SN10	SHA21-205049.010	Yellow coating(Hen)
SN11	SHA21-205049.011	White ABS battery box
SN12	SHA21-205049.012	Black plastic switch
SN13	SHA21-205049.013	Cream PC feet
SN14	SHA21-205049.014	Dk.Red coating
SN15	SHA21-205049.015	Blue coating
SN16	SHA21-205049.016	Lt.Blue coating
SN17	SHA21-205049.017	Green coating
SN18	SHA21-205049.018	Lt.Green coating
SN19	SHA21-205049.019	Brown coating
SN20	SHA21-205049.020	Dk.Grey coating(Car)
SN21	SHA21-205049.021	Black PA pin
SN22	SHA21-205049.022	Colorful coating on plywood(E1607)
SN23	SHA21-205049.023	Natural color MDF
SN24	SHA21-205049.024	Colorful coating on base(E1452)
SN25	SHA21-205049.025	Beige coating(Pony)
SN26	SHA21-205049.026	Colorful coating on plywood(E1310)
SN27	SHA21-205049.027	Colorful coating on plywood(E1309)
SN28	SHA21-205049.028	Red elastic band

Remarks :

(1) 1 mg/kg = 0.0001%



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- (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>011</u>	<u>012</u>	<u>013</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>021</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>003</u>	<u>004</u>	<u>005</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>007</u>	<u>008</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>009</u>	<u>010</u>	<u>011</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>013</u>	<u>014</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>015</u>	<u>016</u>	<u>017</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>018</u>	<u>019</u>	<u>020</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>022</u>	<u>024</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>025</u>	<u>026</u>	<u>027</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>028</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>003</u>	<u>004</u>	<u>005</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>007</u>	<u>008</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>009</u>	<u>010</u>	<u>014</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>015</u>	<u>016</u>	<u>017</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>020</u>
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>022</u>	<u>024</u>	<u>025</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>026</u>	<u>027</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>003</u>	<u>004</u>	<u>005</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>007</u>	<u>008</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>009</u>	<u>010</u>	<u>014</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>015</u>	<u>016</u>	<u>017</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>020</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>022</u>	<u>024</u>	<u>025</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>026</u>	<u>027</u>
Lead (Pb)	0.009	%	0.002	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>



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**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>
Soluble Lead (Pb)	90	mg/kg	5	-	ND	-
Soluble Antimony (Sb)	60	mg/kg	5	-	ND	-
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	-

<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
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



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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	013	014	015
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	016	017	018
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



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>022</u>	<u>023</u>	<u>024</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>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>
Soluble Lead (Pb)	90	mg/kg	5	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND
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

**Notes :**

- (1) Results shown are of the adjusted analytical results.
- (2) Mass of trace amount of sample 003 is 29.6mg, sample 005 is 20.8mg, sample 007 is 40.7mg, sample 008 is 43.5mg, sample 009 is 45.7mg, sample 010 is 33.1mg, sample 013 is 40.1mg, sample 014 is 67.4mg, sample 016 is 22.4mg, sample 017 is 60.0mg, sample 018 is 78.5mg, sample 020 is 31.7mg, sample 022 is 96.1mg, sample 024 is 45.7mg, sample 025 is 60.5mg, sample 026 is 74.4mg,



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sample 027 is 93.6mg.

(3) As received, the test portion of samples 004, 006, 015, 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>003</u>	<u>004</u>	<u>005</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>007</u>	<u>008</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>009</u>	<u>010</u>	<u>014</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>015</u>	<u>016</u>	<u>017</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>020</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>022</u>	<u>024</u>	<u>025</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>026</u>	<u>027</u>
Lead (Pb)	0.009	%	0.002	ND	ND
<b>Conclusion</b>				<b>PASS</b>	<b>PASS</b>



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

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>011</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>012</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>013</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>021</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, 011 are taken from report SHA21-138533.002, 033

The test results 002 are taken from report SHA21-129084.001

The test results 004, 006, 012, 015, 020, 021 are taken from report SHA21-178238.006, 003, 014, 004, 008, 014

The test results 016, 017 are taken from report SHA21-194652.002, 005



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