



Test Report

No.: SHHL2003507001TY

Date: APR. 03, 2020

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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 : XYLOPHONE/ JUMPER
Sample Quantity : 6 SETS
Style / Item No. : E6022,E6023
Client Reference Information: : E6022A,E6023A
Country of Origin : CHINA
Country of Destination : GLOBAL
Labeled Age Grading : 4-99Y
Requested Age Grading : 4-99Y

Age Group Assessed as Per Age Guideline : 4+ YEARS
Age Group Applied in Testing : 4+ YEARS
Sample Receiving Date : MAR. 18, 2020
Further Information Date : APR. 01, 2020
Testing Period : MAR. 18, 2020 TO APR. 03, 2020

Test Requested	Result
ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	Pass
Tracking label per 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. requirement-Lead	Pass
Lead(Pb)	Pass
Lead(Pb)	Pass
CPSIA section 101(f) - Lead in paint/similar surface coating material	Pass
CPSIA section 101(a)(2) - Lead in accessible substrate materials	Pass
CPSIA section 101(a)(2) - Lead in accessible substrate materials	Pass

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



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



Wallace Lui
Senior Technical Manager, Asia



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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 **	Pass
4.2	Flammability Test	Pass (See Detail of test result)
4.3	Toxicology	
4.3.5	Heavy Elements	
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials	Pass (See Detail of test result)
4.3.5.2	Heavy Metal in Substrate Materials	Pass (See Detail of test result)
4.5	Sound-Producing Toys	Pass
4.6	Small Objects	
4.6.3	Labelling Requirements	Pass
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
4.11	Nails and Fasteners	Pass
4.13.2	Hinge-Line Clearance	N/A
	Remark: No applicable because of the weight of the part link with hinge is less than 0.5lb.	See Remark
4.33	Marbles	Pass
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	Pass
5.11	Small Objects, Small Balls, Marbles, and Balloons	Pass
5.16	Promotional Materials	Pass
7	Producer's Markings	
7.1	Producer's Markings	Pass
8.5	Normal Use Testing	Pass
8.7	Impact Test	Pass
8.8	Torque Test	Pass
8.9	Tension Test	Pass

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
Sample

XYLOPHONE/ JUMPER

Burning Rate (inch/sec)

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

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

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: E6022:S1884200120NBCN 09/2019
E6023:S1984200070NBCN 11/2019

- Tracking label found on the product: E6022:S1884200120NBCN 09/2019
E6023:S1984200070NBCN 11/2019

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	SHA20-042574.001	Colorful coating with paper
SN2	SHA20-042574.002	Silvery metal staple
SN3	SHA20-042574.003	Orange ABS
SN4	SHA20-042574.004	Black silicone
SN5	SHA20-042574.005	Transparent coating on wood
SN6	SHA20-042574.006	Plywood
SN7	SHA20-042574.007	Transparent glass bead
SN8	SHA20-042574.008	Yellow coating on wood
SN9	SHA20-042574.009	Purple PA
SN10	SHA20-042574.010	Orange coating on metal
SN11	SHA20-042574.012	Silvery metal without coating(key)
SN12	SHA20-042574.013	Solid wood
SN13	SHA20-042574.014	Green coating on metal(ring)
SN14	SHA20-042574.015	Silvery metal without coating(ring)
SN15	SHA20-042574.016	Blue ABS
SN16	SHA20-042574.017	Green ABS

Remarks :

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



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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>001</u>	<u>005</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>010</u>	<u>014</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>001</u>	<u>005</u>	<u>008</u>
Lead (Pb)	0.009	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>014</u>
Lead (Pb)	0.009	%	0.002	ND	ND
Conclusion				PASS	PASS



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

Test Method : With reference to CPSC-CH-E1001-08.3, Analysis was performed by AAS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	<u>012</u>	<u>015</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND

Lead(Pb)

Test Method : With reference to US EPA Method 3050B:1996, analysis was performed by ICP-OES and AAS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	<u>012</u>	<u>015</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

Notes :

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

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>003</u>	<u>004</u>	<u>007</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>009</u>	<u>016</u>	<u>017</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND	ND



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Lead(Pb)

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

Test Item(s)	Limit	Unit	MDL	003	004	007
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	009	016	017
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

Notes :

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

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.

Test Item(s)	Limit	Unit	MDL	001	003	004
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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Test Item(s)	Limit	Unit	MDL	005	006	007
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	008	009	010
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	013	014	016
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	41	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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Test Item(s)	Limit	Unit	MDL	017
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 008 is 47.5 mg, sample 010 is 51.3 mg.

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

Test Method : CPSC Test Method: CPSC-CH-E1003-09.1 'Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings'

Test Item(s)	Limit	Unit	MDL	001	005	008
Lead (Pb)	0.009	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	010	014
Lead (Pb)	0.009	%	0.002	ND	ND
Conclusion				PASS	PASS

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

Test Method : CPSC Test Method: CPSC-CH-E1002-08.3 'Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product'

Test Item(s)	Limit	Unit	MDL	003	004	007
Lead (Pb)	0.01	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS



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Test Item(s)	Limit	Unit	MDL	009	016	017
Lead (Pb)	0.01	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

Notes :

Limit applies to a children's product manufactured after 14 August 2011 (Public Law 112-28 (HR 2715, 112th Congress) amending CPSIA)

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

Test Method : CPSC Test Method: CPSC-CH-E1001-08.3 `Standard Operating Procedure for Determining Total Lead (Pb) in Children`s Metal Products (Including Children`s Metal Jewelry)`.

Test Item(s)	Limit	Unit	MDL	002	012	015
Lead (Pb)	0.01	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

Notes :

Limit applies to a children's product manufactured after 14 August 2011 (Public Law 112-28 (HR 2715, 112th Congress) amending CPSIA)

Remark:

- (1)The test results 001-009 are taken from report SHA20-041552.001-004,007-009,011,016.
- (2)The test results 010 are taken from report SHA20-041629.024.
- (3)The test results 011-012 are taken from report SHA20-041639.028-029.
- (4)The test results 013 are taken from report SHA20-041535.020.
- (5)The test results 014,017 are taken from report SHA20-042531.014,017..
- (6)The test results 016 are taken from report SHA20-027733.026.

Remark:

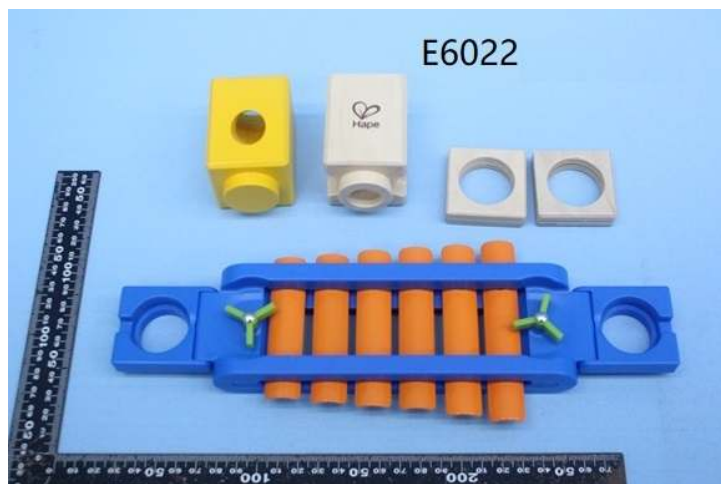
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2. **The declaration of conformity is based on non-binary acceptance decision rules with guard band, and the guard band length parameter is 0 (w).When the measured value falls in the guard band limit, the declaration of conformity is "Conditional PASS"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



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