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国际互认
检测
TESTING
CNAS L0599

Test Report

No.: SHHL1911064936TY

Date: JAN. 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 : CREATIVE CONSTRUCTION KIT
EIFFEL TOWER
CREATIVITY KIT
TRUSS CRANE
MULTI-TOWER KIT
: GEODESIC STRUCTURES

Sample Quantity : 24 SETS

Style / Item No. : E5567, E5567A, E5563, E5563A, E5565, E5565A, E5562, E5562A, E5566, E5566A, E5564, E5564A

Country of Destination : GLOBAL

Labeled Age Grading : 4Y +

Requested Age Grading : 4Y +

Age Group Assessed as Per Age Guideline : 4+YEARS

Age Group Applied in Testing : 4+YEARS

Sample Receiving Date : DEC. 02, 2019

Further Information Date : DEC 26, 2019

Testing Period : DEC. 02, 2019 TO DEC 27, 2019

<u>Test Requested</u>	<u>Result</u>
ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	<u>Pass</u>
Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.	<u>Pass</u>
Lead (Pb)(Non-Metal)	<u>Pass</u>
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>



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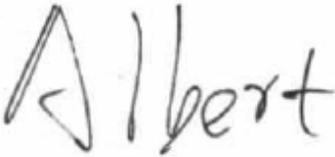
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Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Wallace Lui
Senior Technical Manager, Asia
Physical Part

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



Albert Li
Authorized Signatory
Chemical Part



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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:

Clause	Description	Result
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	Small Objects	
4.6.3	Labelling Requirements	<u>Pass</u>
4.7	Accessible Edges	<u>Pass</u>
4.9	Accessible Points	<u>Pass</u>
4.12	Plastic Film	<u>Pass</u>
5	Safety Labeling Requirements	
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>
5.16	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>

** 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>
Creative construction set	0.02

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.

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: E5562: HAPE NBCN 0818
E5564: HAPE NBCN 10/2018
E5566: HAPE NBCN 0818
E5563: HAPE NBCN 1118
E5565: HAPE NBCN 0819
E5567: HAPE NBCN 1218

- Tracking label found on the product:

Tracking label on product can be exempted, as the product is too small to be marked.

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	SHA19-266856.001	Red coating(On bamboo)
SN2	SHA19-266856.002	Natural colored bamboo without coating
SN3	SHA19-266856.003	Orange silicone rubber support
SN4	SHA19-266856.004	Blue coating(On bamboo)
SN5	SHA19-266856.005	Red silicone rubber support
SN6	SHA19-266856.006	Lt.blue silicone rubber support
SN7	SHA19-266856.007	Yellow coating(On bamboo)
SN8	SHA19-266856.008	Orange ABS Hook
SN9	SHA19-266856.009	Orange string
SN10	SHA19-266856.010	Yellow silicone rubber support
SN11	SHA19-266856.011	Red coating with bamboo+Blue coating with bamboo+Yellow coating with bamboo
SN12	SHA19-266856.012	Orange silicone rubber support+Red silicone rubber support+Lt.blue silicone rubber support
SN13	SHA19-266856.013	Orange ABS Hook+ Yellow silicone rubber support

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 paint and similar surface-coating materials

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

Test Item(s)	Limit	Unit	MDL	011
Total Lead (Pb)	90	mg/kg	20	ND



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Lead (Pb)(Non-Metal)

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>011</u>	<u>012</u>	<u>013</u>
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

Notes :

The maximum permissible limit is quoted from the client requirement.

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>011</u>
Lead (Pb)	0.009	%	0.002	ND
Conclusion				PASS

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

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

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



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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	004	005	006
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	007	008	009
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	010
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 001 is 18.9 mg. sample 004 is 62.1 mg, sample 007 is 88.7 mg.



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

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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>011</u>
Lead (Pb)	0.009	%	0.002	ND

Conclusion **PASS**

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

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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>012</u>	<u>013</u>
Lead (Pb)	0.01	%	0.002	ND	ND

Conclusion **PASS PASS**

Notes :

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

Remark:

For method of CPSC-CH-E1003-09.1/CPSC-CH-E1002-08.3: Composite test has been performed and the result is calculated using the minimum sample weight.

For Others: Test was conducted on composite of random parts of the item as per client's request and the test result is the overall result.

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