



Test Report

No.: SHHL1901002754TY

Date: JAN. 23, 2019

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HAPE INTERNATIONAL (NINGBO) LTD
HAPPY ARTS&CRAFTS(NINGBO)CO., LTD
9-27NANHAI ROAD, DAGANG INDUSTRIAL CITY, BEILUN, NINGBO, CHINA

ADVENTURE ROCKET
MEDIEVAL CASTLE

Sample Quantity	: 10 SETS
Style / Item No.	: 760025/760026
Country of Destination	: GLOBAL
Labeled Age Grading	: 30M+
Requested Age Grading	: 30M+
Age Group Assessed as Per Age Guideline	: 18+ MONTHS
Age Group Applied in Testing	: 18+ MONTHS
Sample Receiving Date	: JAN. 15, 2019
Resubmitted Sample Date	: JAN. 17, 2019
Further Information Date	: JAN. 17, 2019
Testing Period	: JAN. 15, 2019 TO JAN. 23, 2019

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
Lead (Pb)(Non-Metal)	Pass
Part 1303, Title 16, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A. requirement-Lead	Pass
Lead(Pb)(Metal)	Pass
CPSIA section 101(a)(2) - Lead in accessible substrate materials(Metal)	Pass
CPSIA section 101(a)(2) - Lead in accessible substrate materials(Non-Metal)	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 **	<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>Not Applicable</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>
4.12	Plastic Film	<u>Pass</u>
4.17	Wheels, Tires, and Axles	<u>Pass</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>

** Visual Examination



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Detail of test result:

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

Sample

Blocks sets

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: ZFO235 2402286 0119
- Tracking label found on product: ZFO235 2402286 0119

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	SHA19-012147.001	White LDPE
SN2	SHA19-012147.002	Black LDPE
SN3	SHA19-012147.003	Blue LDPE
SN4	SHA19-012147.004	Red LDPE
SN5	SHA19-012147.005	Dk.grey LDPE
SN6	SHA19-012147.006	Brown PS hair
SN7	SHA19-012147.007	Pink PS face
SN8	SHA19-012147.008	Black coating on face
SN9	SHA19-012147.009	Colorful paper sticker with adhesive
SN10	SHA19-012147.010	Yellow LDPE
SN11	SHA19-012147.011	Green LDPE
SN12	SHA19-012147.012	Brown LDPE
SN13	SHA19-012147.013	lt.grey LDPE
SN14	SHA19-012147.014	Light brown PS face
SN15	SHA19-012147.015	White LDPE+Black LDPE+Red LDPE
SN16	SHA19-012147.016	Blue LDPE+Dk.grey LDPE+Yellow LDPE
SN17	SHA19-012147.017	Green LDPE+Brown LDPE+ lt.grey LDPE
SN18	SHA19-012147.018	Brown PS hair+Pink PS face with black coating+Light brown PS face
SN19	SHA19-012147.019	Silvery metal stick
SN20	SHA19-012147.020	Black coating on face

Remarks :

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

Lead (Pb)(Non-Metal)

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

Test Item(s)	Limit	Unit	MDL	009	015	016
Lead (Pb)	40	mg/kg	2	ND	ND	ND
Conclusion				PASS	PASS	PASS

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

Notes :

The maximum permissible limit is quoted from the client requirement.



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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>020</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>009</u>	<u>015</u>	<u>016</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>017</u>	<u>018</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND

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

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>019</u>
Total Lead (Pb)	100	mg/kg	20	ND

Lead(Pb)(Metal)

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

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

Notes :

The maximum permissible limit is quoted from the client requirement.



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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	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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
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>007</u>	<u>008</u>	<u>009</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

<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



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Test Item(s)	Limit	Unit	MDL	013	014
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

Notes :

- (1) Results shown are of the adjusted analytical results
- (2) As received, the test portion of samples 008 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(a)(2) - Lead in accessible substrate materials(Metal)

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	019
Lead (Pb)	0.01	%	0.002	ND
Conclusion				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(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'

Test Item(s)	Limit	Unit	MDL	009	015	016
Lead (Pb)	0.01	%	0.002	ND	ND	ND
Conclusion				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	017	018
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)



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Remark:

For method of 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.

Sample Photo:



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