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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	:	PULL AND PLAY SHAPE SORTE
Sample Quantity	:	6 PCS
Style / Item No.	:	E0349
Country of Origin	:	CHINA
Country of Destination	:	GLOBAL
Labeled Age Grading	:	12M+
Requested Age Grading	:	12M+
Asin No	:	B00DQRV990
Client reference information	:	E0349A
Age Group Assessed as Per Age Guideline	:	12+ MONTHS
Age Group Applied in Testing	:	12+ MONTHS
Sample Receiving Date	:	OCT 20, 2021
Testing Period	:	OCT 20, 2021 TO OCT 27, 2021

Test Requested	<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>
Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.	<u>Pass</u>
Lead (Pb)	Pass
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(a)(2)-Lead in accessible substrate materials (Non-Metal)	Pass
CPSIA section 101(f)-Lead in paint/similar surface coating material	Pass





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************ 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 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>	Description	<u>Result</u>
4	Safety Requirements	
4.1	Material Quality **	<u>Pass</u>
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
4.6.1	Small Objects	Pass
4.7	Accessible Edges	Pass
4.8	Projections	Pass
4.9	Accessible Points	Pass
4.11	Nails and Fasteners	<u>Pass</u>
4.14	Cords, Straps and Elastic	Pass
4.17	Wheels, Tires, and Axles	Pass
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	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
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

Sample PULL AND PLAY SHAPE SORTE 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

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

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

Sample PULL AND PLAY SHAPE SORTE 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

<u>Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels</u> 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: E0349: P2122402265 NBCN 08/2021
- Tracking label found on the product: E0349: P2122402265 NBCN 08/2021
- 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	SHA21-228308.001	Red coating
SN2	SHA21-228308.002	Orange coating
SN3	SHA21-228308.003	Yellow coating
SN4	SHA21-228308.004	Lt. Green coating
SN5	SHA21-228308.005	Dk. Green coating
SN6	SHA21-228308.006	Lt. Blue coating
SN7	SHA21-228308.007	Dk. Blue coating
SN8	SHA21-228308.008	Brown coating
SN9	SHA21-228308.009	Black coating
SN10	SHA21-228308.010	White coating
SN11	SHA21-228308.011	Grey coating
SN12	SHA21-228308.012	Transparent coating
SN13	SHA21-228308.013	Cream rubber
SN14	SHA21-228308.014	Red string
SN15	SHA21-228308.015	Red elastic band
SN16	SHA21-228308.016	Natural color wood
SN17	SHA21-228308.017	Natural color plywood

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.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>013</u>	<u>015</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND



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Lead (Pb)			

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

<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 40	<u>Unit</u> mg/kg	MDL 2	<u>001</u> ND PASS	<u>002</u> ND PASS	<u>003</u> ND PASS
<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 40	<u>Unit</u> mg/kg	MDL 2	<u>004</u> ND PASS	<u>005</u> ND PASS	<u>006</u> ND PASS
<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 40	<u>Unit</u> mg/kg	MDL 2	<u>007</u> ND PASS	<u>008</u> ND PASS	<u>009</u> ND PASS
<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 40	<u>Unit</u> mg/kg	MDL 2	<u>010</u> ND PASS	<u>011</u> ND PASS	<u>012</u> ND PASS
<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 40	<u>Unit</u> mg/kg	MDL 2	<u>013</u> ND PASS	<u>015</u> ND PASS	

Notes :

The maximum permissible limit is quoted from the client requirement.



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

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>002</u>	<u>003</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>004</u>	<u>005</u>	<u>006</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>007</u>	<u>008</u>	<u>009</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>011</u>	<u>012</u>
Total Lead (Pb)	90	mg/kg	20	ND	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> Lead (Pb) Conclusion	<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	<u>001</u> ND PASS	<u>002</u> ND PASS	<u>003</u> ND PASS
<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	<u>004</u> ND PASS	<u>005</u> ND PASS	<u>006</u> ND PASS
<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	<u>007</u> ND PASS	<u>008</u> ND PASS	<u>009</u> ND PASS



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Limit	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>	
0.009	%	0.002	ND	ND	ND	
			PASS	PASS	PASS	
	<u>Limit</u>	<u>Limit</u> <u>Unit</u>	<u>Limit Unit MDL</u>	<u>Limit Unit MDL 010</u> 0.009 % 0.002 ND	<u>Limit Unit MDL 010 011</u> 0.009 % 0.002 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.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<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
Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>004</u>	<u>005</u>	<u>006</u>
Soluble Lead (Pb)	<u>90</u>	mg/kg	5	<u>007</u> ND	-	<u>000</u> 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)	<u>Limit</u>	<u>Unit</u>	MDL	<u>007</u>	<u>008</u>	<u>009</u>
Soluble Lead (Pb)	<u>90</u>	mg/kg	5	<u>007</u> ND	000	003
Soluble Antimony (Sb)	90 60		5	ND	-	-
Soluble Artamony (Sb) Soluble Arsenic (As)	80 25	mg/kg	5 2.5	ND	-	-
Soluble Barium (Ba)	25 1000	mg/kg mg/kg	2.5 10	ND	-	-
Soluble Cadmium (Cd)	75	mg/kg	5	ND	-	_
Soluble Chromium (Cr)	60	mg/kg	5	ND	-	-
Soluble Mercury (Hg)	60 60	mg/kg	5	ND	-	-
	00	iiig/kg	5		-	-



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Soluble Selenium (Se)	500	mg/kg	10	ND	-	-
Test Item(s)	Limit	<u>Unit</u>	MDL	<u>010</u>	<u>011</u>	<u>012</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
Test Item(s)	Limit	<u>Unit</u>	MDL	<u>010</u>	<u>011</u>	<u>012</u>
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
Test Item(s)	Limit	<u>Unit</u>	MDL	<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	11	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
	l : :4	1.1		040	047	
<u>Test Item(s)</u>	Limit	<u>Unit</u>	<u>MDL</u>	<u>016</u>	<u>017</u>	
Soluble Lead (Pb)	90	mg/kg	5		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	
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 001 is 31.5mg, sample 002 is 23.4mg, sample 003 is 33.1mg, sample 004 is 78.5mg, sample 006 is 22.4mg, sample 007 is 53.9mg, sample 012 is 36.4mg.
(3) As received, the test portion of samples 005, 008~011 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 (Non-Metal)

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

Test Item(s) Lead (Pb) Test Item(s) Conclusion	<u>Limit</u> 0.01 <u>Limit</u>	<u>Unit</u> % <u>Unit</u>	<u>MDL</u> 0.002 <u>MDL</u>	013 ND 013 PASS
<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 0.01	<u>Unit</u> %	<u>MDL</u> 0.002	015 ND PASS

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> Lead (Pb) Conclusion	<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	001 ND PASS
<u>Test Item(s)</u> Lead (Pb) Conclusion	<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	002 ND PASS
Test Item(s) Lead (Pb) Conclusion	<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	003 ND PASS



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Test Item(s) Lead (Pb) Conclusion		<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	004 ND PASS	
<u>Test Item(s)</u> Lead (Pb) Conclusion		<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	005 ND PASS	
<u>Test Item(s)</u> Lead (Pb) Conclusion		<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	006 ND PASS	
<u>Test Item(s)</u> Lead (Pb) Conclusion		<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	007 ND PASS	
<u>Test Item(s)</u> Lead (Pb) Conclusion		<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	008 ND PASS	
<u>Test Item(s)</u> Lead (Pb) Conclusion		<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	009 ND PASS	
<u>Test Item(s)</u> Lead (Pb) Conclusion		<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	<u>010</u> ND PASS	
<u>Test Item(s)</u> Lead (Pb) Conclusion		<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	011 ND PASS	
<u>Test Item(s)</u> Lead (Pb) Conclusion		<u>Limit</u> 0.009	<u>Unit</u> %	<u>MDL</u> 0.002	012 ND PASS	



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Remark:

The test results 001, 006 are taken from report SHA21-194652.004, 002

The test results 002, 009, 010, 012, 013, 014, 017 are taken from report SHA21-207635.013, 009, 012, 014, 006, 003, 001

The test results 003, 004, 008, 015 are taken from report SHA21-205049.010, 018, 019, 028

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