



中国认可
国际互认
检测
TESTING
CNAS L2929

Test Report

No.: T51910311338TY

Date: JAN 15, 2020

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HAPPY ARTS&CRAFTS(NINGBO)CO.,LTD
HAPE INTERNATIONAL (NINGBO) LTD
9-27 NANHAI ROAD, DAGANG INDUSTRIAL CITY,
BEILUN, NINGBO, CHINA PC:315800

The following samples were submitted and identified by/on behalf of the client as:

MAGNETIC ART BOX,MONSTER MATH SCALE

Item No.	:	E1631, E1631A, E0511, E0511A
Country of Destination	:	GLOBAL
Labeled Age Grading	:	3Y+
Requested Age Grading	:	3Y+
Age Group Assessed by SGS As Per Age Guideline	:	OVER 3 YEARS
Age Group Applied in Testing	:	OVER 3 YEARS
Sample Receiving Date	:	DEC 16, 2019
Last Submission Sample Date	:	DEC 31, 2019
Testing Period	:	DEC 16, 2019 TO JAN 15, 2020



SGS-CSTC Shenzhen Technical Services Co., Ltd.
Shenzhen Branch Testing Center Hardlines

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Test Requested		Conclusion
1.	For compliance with the test requirement of ASTM F963-17 Standard Consumer Safety Specification on Toy Safety.	--
	ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	PASS
2.	Title 16, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A. - Part 1303 - Ban of Lead - Containing Paint and Certain Consumer Products Bearing Lead - Containing Paint – Lead Content	PASS
3.	Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children’s products.	PASS*
4.	CPSIA section 101 - Total Lead content	--
	CPSIA section 101(f) (1) – Lead in paint/similar surface coating material	PASS
	Client’s Requirement – Lead in paint/similar surface coating material	PASS
	CPSIA section 101(a) (2) – Lead in accessible substrate materials (Including Children’s Metal Jewelry)	PASS
	Client’s Requirement – Lead in accessible substrate materials (Including Children’s Metal Jewelry)	PASS

Remark: Test item(s) with “*” is(are) not accredited by CNAS.

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

Signed for and on behalf of
 SGS-CSTC Standards Technical
 Services Co., Ltd. Shenzhen Branch Testing Center





Qu Ping, Kiky
 Dept. Manager
 CNAS Approved Signatories

Liu Junjie, Tony
 Section Manager
 CNAS Approved Signatories



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Results:

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</u> <u>(See Result Page)</u>
4.3	Toxicology	
4.3.5	Heavy Elements	
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials	<u>Pass</u> <u>(See Result Page)</u>
4.3.5.2	Heavy Metal in Substrate Materials	<u>Pass</u> <u>(See Result Page)</u>
4.6.3	Labelling Requirements	<u>Pass</u>
4.7	Accessible Edges	<u>Pass</u>
4.9	Accessible Points	<u>Pass</u>
4.11	Nails and Fasteners	<u>Pass</u>
4.12	Plastic Film	<u>Pass</u>
4.38	Magnets	<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>
8.10	Compression Test	<u>Pass</u>

** Visual Examination



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Result Page:

Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample

MAGNETIC ART BOX, MONSTER MATH SCALE

Burning Rate (inch/sec)

0.03

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.

Flammability Test on Textile Materials

Samples	<u>Burning Time (second)</u>											Results	
	<u>As received</u>					<u>After washing</u>							
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>Ave</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>Ave</u>	
White fabric	13.5	13.1	13.3	13.4	13.3	13.3	13.3	13.2	13.4	13.2	13.2	13.3	Pass
	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	---	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	---	
	---	---	---	---	---	---	---	---	---	---	---	---	

DNI = Did Not Ignite

IBE = Ignite But Self-Extinguished



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Requirements:**Plain Surface Fabrics**

- (1) All specimens either did not ignite, ignited but self extinguished, or any combination thereof.
- (2) Average burn time is 3.5 s or greater.

Raised Surface Fabrics

- (1) All specimens either did not ignite, ignited but self extinguished, or any combination thereof.
- (2) Average burn time is 4 s or greater.
- (3) Average burn time is less than 4 s and all specimens burn with a surface flash where the intensity of the surface flame is insufficient to ignite, char, or melt the base fabric.
- (4) Only 1 of 5 specimens ignites and burns in less than 4s and the base fabric does not ignite or fuse, the sample is acceptable.
- (5) Only 1 of 5 specimens ignites or burns in more than 4s, regardless of whether the base fabric ignites or fuses, the sample is acceptable.



ASTM F963-17, Clause 4.3.5.1 – Heavy Elements in Paint/Similar Surface Coating Materials

Method: With reference to CPSC-CH-E1003-09.1

Method: With reference to ASTM F963-17 Clause 8.3

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Total Lead Content

Test Item(s)	Lead (Pb)		
MDL (ppm)	10		
Total Limit (ppm)	90		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Transparent lacquer coating on plywood (Scale, box) w/ dark green, black, white coating (Pattern)	2	1	ND
2. White coating on plywood (Box, pattern) w/ black coating on plywood & hardboard (Pattern, lettering), red coating on plywood (Pattern)	2	2	ND
3. Dark cyan coating on hardboard (Base) w/ brown coating on hardboard (Pattern, lettering) + Multi-color coating on plywood (Pattern)	2	3	ND

Soluble Heavy Metal Content

Test Item(s)	Pb	Sb	As	Ba	Cd	Cr	Hg	Se			
MDL (ppm)	5	5	2.5	10	5	5	5	10			
Migration Limit (ppm)	90	60	25	1000	75	60	60	500			
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)							
1	1	1	65.6	ND	ND	ND	ND	ND	ND	ND	ND
2	1	2	33.1	ND	ND	ND	ND	ND	ND	ND	ND
3	1	3	30.6	ND	ND	ND	ND	ND	ND	ND	ND
4	1	5	48.9	ND	ND	ND	ND	ND	ND	ND	ND
5	1	15	/	ND	ND	ND	ND	ND	ND	ND	ND
6	1	20	/	ND	ND	ND	ND	ND	ND	ND	ND



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Specimen Description:

1. Transparent lacquer coating on plywood (Scale, box)
2. White coating on plywood (Box, pattern)
3. Black coating on plywood & hardboard (Pattern, lettering)
4. White coating (Pattern)
5. Dark cyan coating on hardboard (Base)
6. Multi-color coating on plywood (Pattern)

- Note:
- ppm = parts per million
 - 1% = 10000 mg/kg = 10000 ppm = 10000 µg/g
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - Migration results of eight elements shown are of the adjusted analytical results
 - The result(s) is (are) calculated using the minimum specimen weight for composite test.
 - As received, test portion of dark green, black coating (Pattern), red coating on plywood (Pattern), brown coating on hardboard (Pattern, lettering) is(are) less than 10 mg, therefore such component(s) was(were) not tested for certain migration elements, as specified in ASTM F963-17 Clause 8.3.3.6 (2) – Selection of Test Portions
 - For Soluble Heavy Metal Content:
Result(s) of specimen No.1-No.3 is(are) extracted from report No. T51910280761TY
Result(s) of specimen No.4-No.6 is(are) extracted from report No. T51910311337TY



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ASTM F963-17, Clause 4.3.5.2 – Heavy Elements in Substrate Materials

Method (non-metallic materials): With reference to CPSC-CH-E1002-08.3

Method (metal materials): With reference to CPSC-CH-E1001-08.3

Method: With reference to ASTM F963-17 Clause 8.3

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Total Lead Content

Test Item(s)	Lead (Pb)		
MDL (ppm)	10		
Total Limit (ppm)	100		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Cream plywood (Scale, box) + Brown hardboard (Base)	3	1	ND
2. Yellow plastic (Body) + Blue plastic (Body) + Orange plastic (Body)	3	2	ND
3. Green plastic (Body) + Red plastic (Body) + Cyan plastic (Scale)	3	3	ND
4. White plastic (Scale) + Cream plastic (Holder)	3	4	ND
5. Red soft plastic (Body) + Transparent plastic film (Card, accessory, box)	3	5	ND
6. Black magnetic rubber (Accessory)	4	1	ND
7. Silvery metal screw (Base)	5	1	ND
8. Silvery metal rivet (Scale)	5	2	ND
9. Silvery metal big screw (Box)	5	3	ND



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Soluble Heavy Metal Content

Test Item(s)				Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (ppm)				5	5	2.5	10	5	5	5	10
Migration Limit (ppm) -- Other Than Modeling Clays				90	60	25	1000	75	60	60	500
Migration Limit (ppm) -- Modeling Clays				90	60	25	250	50	25	25	500
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)							
1	1	4	/	ND	ND	ND	ND	ND	ND	ND	ND
2	1	6	/	ND	ND	ND	ND	ND	ND	ND	ND
3	1	7	/	ND	ND	ND	ND	ND	ND	ND	ND
4	1	8	/	ND	ND	ND	ND	ND	ND	ND	ND
5	1	9	/	ND	ND	ND	ND	ND	ND	ND	ND
6	1	10	/	ND	ND	ND	ND	ND	ND	ND	ND
7	1	11	/	ND	ND	ND	ND	ND	ND	ND	ND
8	1	12	/	ND	ND	ND	ND	ND	ND	ND	ND
9	1	13	/	ND	ND	ND	ND	ND	ND	ND	ND
10	1	14	/	ND	ND	ND	ND	ND	ND	ND	ND
11	1	16	/	ND	ND	ND	ND	ND	ND	ND	ND
12	1	17	/	ND	ND	ND	ND	ND	ND	ND	ND
13	1	18	/	ND	ND	ND	ND	ND	ND	ND	ND
14	1	19	/	ND	ND	ND	ND	ND	ND	ND	ND
15	1	21	/	ND	ND	ND	ND	ND	ND	ND	ND
16	1	22	/	ND	ND	ND	ND	ND	ND	ND	ND
17	1	23	/	ND	ND	ND	ND	ND	ND	ND	ND



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Specimen Description:

1. Cream plywood (Scale, box)
2. Yellow plastic (Body)
3. Blue plastic (Body)
4. Orange plastic (Body)
5. Green plastic (Body)
6. Red plastic (Body)
7. Red soft plastic (Body)
8. Cyan plastic (Scale)
9. Green felt (Scale)
10. White plastic (Scale)
11. Brown hardboard (Base)
12. Cream plastic (Holder)
13. Transparent plastic film (Card, accessory, box)
14. Black magnetic rubber (Accessory)
15. Red woven cord (Handle)
16. White fabric w/ white fabric thread (Bag)
17. Cream woven cord (Bag)

- Note:
- ppm = parts per million
 - 1% = 10000 mg/kg = 10000 ppm = 10000 µg/g
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - Migration results of eight elements shown are of the adjusted analytical results
 - The result(s) is (are) calculated using the minimum specimen weight for composite test.
 - For Soluble Heavy Metal Content:
Result(s) of specimen No.1 is(are) extracted from report No. T51910280761TY
Result(s) of specimen No.2-No.15 is(are) extracted from report No. T51910311337TY
Result(s) of specimen No.16 & No.17 is(are) extracted from report No. T51910311339TY



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CPSC 16 CFR 1303 - Lead in Paint/Similar Surface Coating Materials

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

Test Item(s)			Lead (Pb)
Permissible Limit (ppm)			90
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Transparent lacquer coating on plywood (Scale, box) w/ dark green, black, white coating (Pattern)	6	1	ND
2. White coating on plywood (Box, pattern) w/ black coating on plywood & hardboard (Pattern, lettering), red coating on plywood (Pattern)	6	2	ND
3. Dark cyan coating on hardboard (Base) w/ brown coating on hardboard (Pattern, lettering) + Multi-color coating on plywood (Pattern)	6	3	ND

- Note:
- ppm = parts per million
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit = 10 ppm
 - 1% = 10000 mg/kg = 10000 ppm
 - The result(s) is (are) calculated using the minimum specimen weight for composite test.



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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:
 - 1) Name: Hape International AG
 - 2) Location: P1922401255 NBCN 07/2019
 - 3) Date: P1922401255 NBCN 07/2019
 - 4) Cohort information: P1922401255 NBCN 07/2019
- Tracking label found on the product:
 - 1) Name: Hape International AG
 - 2) Location: P1922401255 NBCN 07/2019
 - 3) Date: P1922401255 NBCN 07/2019
 - 4) Cohort information: P1922401255 NBCN 07/2019

Note: 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.

CPSIA - Lead in Paint/Similar Surface Coating Materials

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

Test Item(s)			Lead (Pb)
Permissible Limit (ppm)			90
Client’s Limit (ppm)			40
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Transparent lacquer coating on plywood (Scale, box) w/ dark green, black, white coating (Pattern)	9	1	ND
2. White coating on plywood (Box, pattern) w/ black coating on plywood & hardboard (Pattern, lettering), red coating on plywood (Pattern)	9	2	ND
3. Dark cyan coating on hardboard (Base) w/ brown coating on hardboard (Pattern, lettering) + Multi-color coating on plywood (Pattern)	9	3	ND



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- Note:
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 - 1% = 10000 mg/kg = 10000 ppm
 - The result(s) is (are) calculated using the minimum specimen weight for composite test.

CPSIA - Lead in Accessible Substrate Materials

Method (non-metallic materials): With reference to CPSC-CH-E1002-08.3 - Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product

Method (metal materials): With reference to 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)	Lead (Pb)		
Permissible Limit **(ppm)	100		
Client’s Limit (ppm)	40		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Cream plywood (Scale, box) + Brown hardboard (Base)	7	1	ND
2. Yellow plastic (Body) + Blue plastic (Body) + Orange plastic (Body)	7	2	ND
3. Green plastic (Body) + Red plastic (Body) + Cyan plastic (Scale)	7	3	ND
4. White plastic (Scale) + Cream plastic (Holder)	7	4	ND
5. Red soft plastic (Body) + Transparent plastic film (Card, accessory, box)	7	5	ND
6. Black magnetic rubber (Accessory)	8	1	ND
7. Silvery metal screw (Base)	10	1	ND
8. Silvery metal rivet (Scale)	10	2	ND
9. Silvery metal big screw (Box)	10	3	ND

** Permissible Limit applies to a children’s product manufactured after 14 August 2011 (Public Law 110-314 (Consumer Product Safety Improvement Act of 2008) and its Amendments Public Law 112-28)



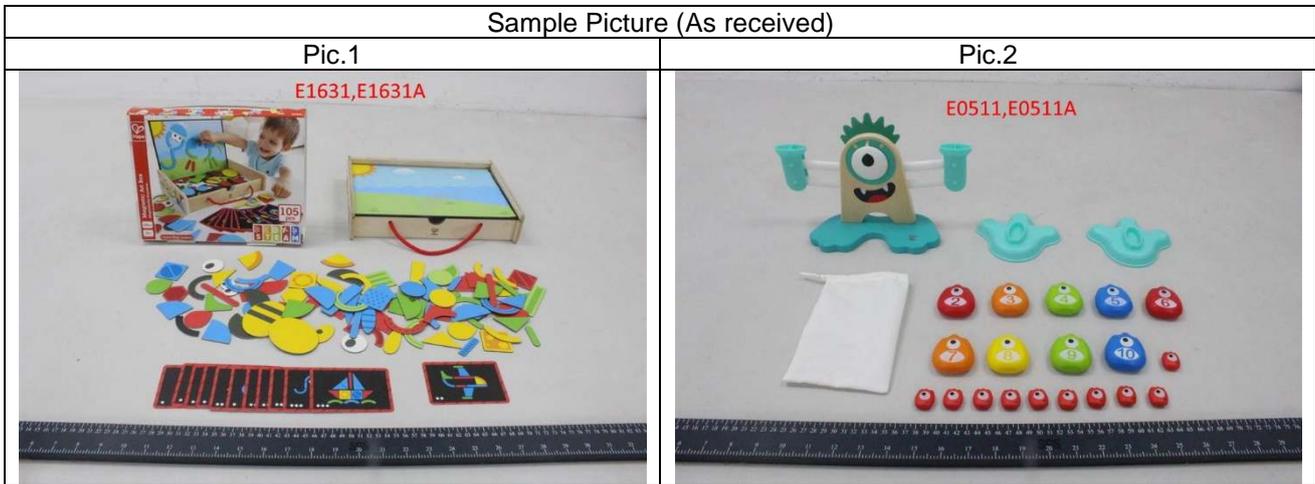
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N.B. : - Only applicable clauses were shown.



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*** End of Report ***



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