

Test Report

Number: SHAH01450843

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

Date: 09 Jun, 2022

Sample Description:

Two(2) sets of submitted sample said to be :

Item Name : **Creative Peg Puzzle, Pyramid of Play, Shake and Match Shape Sorter.**
Item No. : **E0411,E0411B; E0413,E0413A,E0413B; E0407,E0407A.**
Asin No. : B00712O1J6, B001ODA2Q4, B004BW8Z14.
Quantity : 2sets.
Packaging Provided By Applicant : Yes.
Labelled Age Group : 18M+/12M+.
Goods Exported to : Global.
Country Of Origin : China.

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

To be continued

Authorized By:
Intertek Testing Services Ltd .Zhejiang, Ningbo Branch



Peter Chen
General Manager



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Conclusion:

| <u>Tested Samples</u> Submitted Sample | <u>Standard</u> | <u>Result</u> |
|---|--|---------------|
| | U.S. ASTM F963-17 Physical And Mechanical Tests | Pass |
| | U.S. ASTM F963-17 Flammability Test of Materials Other Than Textile Materials | Pass |
| | U.S. CFR Title 16 (CPSC Regulations) Mechanical and Physical Tests | Pass |
| | U.S. CFR Title 16 (CPSC Regulations) Part 1500.3(c)(6)(vi) Flammability Test On Rigid and Pliable Solids | Pass |
| | Consumer Product Safety Improvement Act (CPSIA) 2008 Section 103 Tracking Labels for Children Products | Pass |
| Tested components of submitted sample | U.S. ASTM F963-17 for total Lead content in surface coating | Pass |
| | U.S. ASTM F963-17 for total Lead content in non-surface coating | Pass |
| | U.S. ASTM F963-17 on soluble heavy elements test | Pass |
| | U.S. CFR title 16(CPSC regulations) Part 1303 total Lead content | Pass |
| | U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in surface coating | Pass |
| | U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in non-surface coating materials (substrate) | Pass |

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Tests Conducted

1 Physical and Mechanical Tests

As per ASTM Standard Consumer Safety Specification for Toy Safety F963-17.

Applicant's Specified Age Group for Testing: 12 months and up for E0407, 18 months and up for E0411&E0413

| | | |
|---|--------------------|------------------|
| The submitted samples were undergone the use and abuse tests in accordance with the Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations: | | |
| <u>Test</u> | <u>FHSA</u> | <u>Parameter</u> |
| Impact Test | Section 1500.51(b) | 10 x 4.5 ft |
| | Section 1500.53(b) | 4 x 3.0 ft |
| Torque Test | Section 1500.53(e) | 4 in-lbf |
| Tension Test | Section 1500.53(f) | 15 lbf |
| Compression Test | Section 1500.53(g) | 30 lbf |

| <u>Section</u> | <u>Testing Items</u> | <u>Assessment</u> |
|----------------|--|-------------------|
| 4.1 | Material Quality | P |
| 4.5 | Sound-Producing Toys | P |
| 4.6.1 | Toys Intended for Children under 36 Months (Small Objects) | P |
| 4.6.2 | Mouth-Actuated Toys | NA |
| 4.6.3 | Toys And Games for 36 Months to 72 Months (Small Part Warning) | NA |
| 4.7 | Accessible Edges | P |
| 4.8 | Projections | P |
| 4.9 | Accessible Points | P |
| 4.10 | Wires Or Rods | NA |
| 4.11 | Nails And Fasteners | NA |
| 4.12 | Plastic Film | NA |
| 4.13 | Folding Mechanisms and Hinges | NA |
| 4.14 | Cords, Straps, and Elastics | P |
| 4.15 | Stability and Over-Load Requirements | NA |
| 4.16 | Confined Spaces | NA |
| 4.17 | Wheels, Tires and Axles | NA |
| 4.18 | Holes, Clearance, and Accessibility of Mechanisms | NA |
| 4.19 | Simulated Protective Devices | NA |
| 4.20 | Pacifiers | NA |
| 4.21 | Projectile Toys | NA |
| 4.22 | Teethers and Teething Toys | NA |
| 4.23 | Rattles | P |
| 4.24 | Squeeze Toys | NA |
| 4.25 | Battery-Operated Toys | NA |
| 4.26 | Toys Intended to be Attached to a Crib or Playpen | NA |
| 4.27 | Stuffed and Beanbag-Type Toys | NA |
| 4.28 | Stroller and Carriage Toys | NA |
| 4.29 | Art Materials | NA |
| 4.30 | Toy Gun Marking | NA |



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| Section | Testing Items | Assessment |
|---------|--|------------|
| 4.31 | Balloons | NA |
| 4.32 | Certain Toys with Nearly Spherical Ends | NA |
| 4.33 | Marbles | NA |
| 4.34 | Balls | NA |
| 4.35 | Pompoms | NA |
| 4.36 | Hemispheric-Shaped Objects | NA |
| 4.37 | Yo Yo Elastic Tether Toys | NA |
| 4.38 | Magnets | NA |
| 4.39 | Jaw Entrapment in Handles and Steering Wheels | NA |
| 4.40 | Expanding Materials | NA |
| 4.41 | Toy Chests | NA |
| 5 | Labelling Requirement | P |
| 6 | Instructional Literature | P |
| 7 | Producer's Markings | |
| | - Name of Producer/Distributor (Toy / Package) | Yes |
| | - Address (Toy / Package) | Yes |

Remark: The submitted samples were undergone the tests in accordance with Section 8.5 through Section 8.18 and 8.21 through 8.26 on normal use, abuse and specific tests for different types of toys whichever is applicable.

P = Pass

NA = Not Applicable

Date Sample Received: 20 Apr, 2022

Testing Period: 20 Apr, 2022 To 05 May, 2022

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Tests Conducted

2 Flammability Test

As per section 4.2 of the ASTM Standard Consumer Safety Specification On Toy Safety F963-17.

Result = Ignited But Self-Extinguished before Burn Rate Could be Determined

Date Sample Received: 20 Apr, 2022

Testing Period: 20 Apr, 2022 To 05 May, 2022

3 Physical and Mechanical Test

As per U.S. Code of Federal Regulations title 16 Part 1500.50, the hazards of sharp points, sharp edge and small parts are assessed both before and after applicable use and abuse tests.

Applicant's Specified Age Group for Testing: 12 months and up for E0407, 18 months and up for E0411&E0413

| | <u>No. of Sample Tested</u> | <u>Sharp Point</u> (1500.48) | <u>Sharp Edge</u> (1500.49) | <u>Small Part</u> (1501) |
|----------------------------------|-----------------------------|---------------------------------|--------------------------------|-----------------------------|
| As Received | 1 | P | NA | P |
| Impact (1500.51 (b)&1500.53 (b)) | 1 | P | NA | P |
| Flexure (1500.53 (d)) | 0 | NA | NA | NA |
| Torque (1500.53 (e)) | 1 | P | NA | P |
| Tension (1500.53 (f)) | 1 | P | NA | P |
| Compression (1500.53 (g)) | 1 | P | NA | P |

Remark: P = Pass

NA = Not Applicable

Date Sample Received: 20 Apr, 2022

Testing Period: 20 Apr, 2022 To 05 May, 2022

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Tests Conducted

4 Flammability Test

As per U.S. Code of Federal Regulations title 16 Part 1500.44 for rigid and pliable solids.

Result = Ignited but Self-Extinguished before Burn Rate Could be Determined

Date Sample Received: 20 Apr, 2022

Testing Period: 20 Apr, 2022 To 05 May, 2022

5 Tracking Label Assessment

As per Consumer Product Safety Improvement Act (CPSIA) 2008 Section 103 Tracking Labels For Children Products.

Tracking Label Found on the Packaging:

Hape International AG
P2122402827 NBCN 12/2021
2122401919 NBCN 08/2021
P2122402802 NBCN 11/2021

Tracking Label Found on the Product:

Hape International AG
P2122402827 NBCN 12/2021
P2122401919 NBCN 08/2021
P2122402802 NBCN 11/2021

Note: The tracking label assessment was based on the submitted sample and the information provided by the applicant. There was no verification on the validity of such information.

Date Sample Received: 20 Apr, 2022

Testing Period: 20 Apr, 2022 To 05 May, 2022

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Tests Conducted

6 Total Lead (Pb) Content for Coating

As per section 4.3.5 of the ASTM standard consumer safety specification on toy safety F963-17, test method CPSC-CH-E1003-09.1 was/were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

| Tested components | Result in ppm | Limit (ppm) |
|-------------------|---------------|-------------|
| (1)to(20) | <20 | 90 |

Remark: ppm = parts per million = mg/kg

Tested Components: See component list in the last section of this report.

Date Sample Received: 20 Apr, 2022

Testing Period: 20 Apr, 2022 To 08 Jun, 2022

7 Total Lead (Pb) Content for Non-surface Coating

As per section 4.3.5 of the ASTM standard consumer safety specification on toy safety F963-17, test method CPSC-CH-E1001-08.3 or/and CPSC-CH-E1002-08.3, was/were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

| Tested component | Result in ppm | Limit (ppm) |
|------------------|---------------|-------------|
| (21)to(23) | <10 | 100 |
| (26) | <10 | 100 |

Remark: ppm = parts per million = mg/kg

Tested Components: See component list in the last section of this report.

Date Sample Received: 20 Apr, 2022

Testing Period: 20 Apr, 2022 To 08 Jun, 2022

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8 Soluble Heavy Metal Elements Analysis

As per section 4.3.5.1(2) and 8.3.2 / 4.3.5.2(2)(b) and 8.3.5 of the ASTM standard consumer safety specification on toy safety F963-17, acid extraction method was used and heavy metal elements content were determined by Inductively Coupled Argon Plasma Spectrometry.

| | Result (ppm) | | | | | | Soluble Limit(ppm) |
|-------------------|--------------|----------|------------|------|------------|------------|--------------------|
| | (1) | (3)to(8) | (10)to(12) | (13) | (14)to(17) | (21)to(27) | |
| Sol. Barium(Ba) | <5 | <5 | <5 | 69# | <5 | <5 | 1000 |
| Sol. Lead(Pb) | <5 | <5 | <5 | 9# | <5 | <5 | 90 |
| Sol. Cadmium(Cd) | <5 | <5 | <5 | <5 | <5 | <5 | 75 |
| Sol. Antimony(Sb) | <5 | <5 | <5 | <5 | <5 | <5 | 60 |
| Sol. Selenium(Se) | <5 | <5 | <5 | <5 | <5 | <5 | 500 |
| Sol. Chromium(Cr) | <5 | <5 | <5 | <5 | <5 | <5 | 60 |
| Sol. Mercury(Hg) | <5 | <5 | <5 | <5 | <5 | <5 | 60 |
| Sol. Arsenic(As) | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | 25 |

| | Result (ppm) | | Soluble Limit(ppm) |
|-------------------|--------------|------------|--------------------|
| | (28) | (29)to(31) | |
| Sol. Barium(Ba) | 52# | <5 | 1000 |
| Sol. Lead(Pb) | <5 | <5 | 90 |
| Sol. Cadmium(Cd) | <5 | <5 | 75 |
| Sol. Antimony(Sb) | <5 | <5 | 60 |
| Sol. Selenium(Se) | <5 | <5 | 500 |
| Sol. Chromium(Cr) | <5 | <5 | 60 |
| Sol. Mercury(Hg) | <5 | <5 | 60 |
| Sol. Arsenic(As) | <2.5 | <2.5 | 25 |

Remark: ppm = Parts per million = mg/kg
 Sol. = Soluble
 # = The results were adjusted by subtracting analytical correction factor.

Tested components: See component list in the last section of this report

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9 Total Lead (Pb) Content

As per U.S. Code of Federal Regulations title 16 part 1303, acid digestion method was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

| <u>Tested component</u> | <u>Result (%)</u> | <u>Limit (%)</u> |
|-------------------------|-------------------|------------------|
| (1)to(20) | <0.002 | 0.009 |

The limit was quoted according to CPSC Regulation CFR title 16 Part 1303 for Lead (Pb) content.

Remark: % = Percentage based on dry weight of testing sample

Tested Components: See component list in the last section of this report.

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Testing Period: 20 Apr, 2022 To 08 Jun, 2022

10 Total Lead (Pb) Content in Surface Coating

As per standard operating procedure for determining Lead (Pb) in paint and other similar surface coatings (April 26, 2009), test method CPSC-CH-E1003-09.1 was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

| <u>Tested Component</u> | <u>Result (ppm)</u> | <u>Limit (ppm)</u> |
|-------------------------|---------------------|--------------------|
| (1)to(20) | <20 | 90 |

The limit was quoted according to U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in surface coating.

Remark: ppm = Parts per million = mg/kg

Tested Components: See component list in the last section of this report.

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11 Total Lead (Pb) Content In Non-Surface Coating Materials (Substrate)

As per standard operating procedures for determining total Lead (Pb) in children's products, test method(s) CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001-08.3 was/were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

| <u>Tested Component</u> | <u>Result (ppm)</u> | <u>Limit (ppm)</u> |
|-------------------------|---------------------|--------------------|
| (21)to(23) | <10 | 100 |
| (26) | <10 | 100 |

The limit was quoted according to U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in non-surface coating materials (substrate).

Remark: ppm = Parts per million = mg/kg

Tested Components: See component list in the last section of this report.

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Testing Period: 20 Apr, 2022 To 08 Jun, 2022

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Components:

- (1) Transparent varnish on wood(E0407/E0413/E0411).
- (2) Brown coating with wood(E0407/E0413/E0411).
- (3) Red coating on wood(E0407/E0413).
- (4) Orange coating on wood(E0407/E0413).
- (5) Yellow coating on wood(E0407/E0411/E0413).
- (6) Light green coating on wood(E0407/E0411/E0413).
- (7) blue coating on wood(E0407/E0411/E0413).
- (8) Purple coating on wood(E0407/E0413).
- (9) Black coating with wood(E0407/E0413/E0411).
- (10) Sky blue coating on wood(E0411/E0413).
- (11) Navy blue coating on wood(E0411).
- (12) Dark orange coating on wood(E0411).
- (13) Pale green coating on wood(E0411).
- (14) Dark green coating on wood(E0411).
- (15) Pale pink coating on wood(E0411).
- (16) Pink coating on wood(E0411).
- (17) Hot pink coating on wood(E0411).
- (18) White coating with wood(E0413).
- (19) Light grey coating with wood(elephant, E0413).
- (20) Dark grey coating with wood(elephant,E0413).
- (21) Cream PA plastic(pole, E0411).
- (22) Transparent PC plastic(sheet, E0407).
- (23) White rubber(elastic string, E0407/E0411).口水渗透
- (24) Red thread(elastic string, E0407).
- (25) White thread(elastic string, E0411).
- (26) Natural color plywood.
- (27) Brown coating on wood(E0407/E0413/E0411).
- (28) Black coating on wood(E0407/E0413/E0411).
- (29) White coating on wood(E0413).
- (30) Light grey coating on wood(elephant, E0413).
- (31) Dark grey coating on wood(elephant,E0413).

End of report

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