



## Test Report

No.: T52310351442TY

Date: MAY 11, 2024

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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:

E4314 BAMBOO RAPIDO

Item No. : E4314  
Country of Origin : CHINA  
Country of Destination : GLOBAL  
Client Reference Information : E4314A  
Labeled Age Grading : 5-9Y  
Requested Age Grading : 3-6Y+

\*\*\*\*\*

Age Group Assessed by SGS As Per Age : OVER 3 YEARS  
Guideline  
Age Group Applied in Testing : OVER 3 YEARS  
Sample Receiving Date : DEC 28, 2023  
Testing Period : DEC 28, 2023 TO MAY 11, 2024



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| Test Requested |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Conclusion |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 1.             | For compliance with test requirement of the Physical & Mechanical, Flammability test requirement of Title 16, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | --         |
|                | Physical and mechanical tests consisting US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 and US CPSC 16 CFR 1501:<br>-US CPSC 16 CFR 1500.48 – Technical requirements for determining a sharp point in toys and other articles intended for use by children under 8 years of ages<br>-US CPSC 16 CFR 1500.49 – Technical requirements for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age<br>-US CPSC 16 CFR 1501 – Method for identifying toys and other articles intended for use by children under 3 years of age which present choking, aspiration, or ingestion hazards because of small parts | PASS       |
|                | US CPSC 16 CFR 1500.19 – Misbranded toys and other articles intended for use by children<br>(Not misbranded toys or articles intended for use by children)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PASS       |
|                | US CPSC 16 CFR 1500.44 – Method for determining extremely flammable and flammable solids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 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 15 U.S.C. § 2063(a)(5) and Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PASS       |
| 4.             | For compliance with the test requirement of ASTM F963-23 Standard Consumer Safety Specification on Toy Safety.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | --         |
|                | ASTM F963-23 Standard Consumer Safety Specification for Toy Safety                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PASS       |



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| Test Requested |                                                                                                        | Conclusion |
|----------------|--------------------------------------------------------------------------------------------------------|------------|
| 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:

### Summary of documentation provided by vendors/suppliers for the compliance evaluation:

| Requirements                       | Report No       | Testing Lab | Report Issue Date |
|------------------------------------|-----------------|-------------|-------------------|
| ASTM F963 Clause 4.3.6 (USP 61/62) | T52310350083SC  | SGS         | Feb 02,2024       |
| ASTM F963 Clause 4.3.6 (USP 51)    | T52310350082SC  | SGS         | Apr 23,2024       |
| ASTM F963 Clause 4.3.1 (TRA)       | SHAHG2008182101 | SGS         | May 26,2020       |

\*\*\*\*\* 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



Jia Fengjuan, Shelly  
Dept. Manager

Sun Enxu, Aaron  
Dept. Manager



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### Results:

#### US CPSC

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

|                                       | <u>No. of<br/>sample<br/>tested</u> | <u>Sharp point<br/>(16 CFR<br/>1500.48)</u> | <u>Sharp edge<br/>(16 CFR<br/>1500.49)</u> | <u>Small part<br/>(16 CFR<br/>1501)</u> |
|---------------------------------------|-------------------------------------|---------------------------------------------|--------------------------------------------|-----------------------------------------|
| As received                           | 2                                   | Pass                                        | N/A                                        | N/A                                     |
| Impact test<br>(16 CFR 1500.53b)      | 1                                   | Pass                                        | N/A                                        | N/A                                     |
| Bite test<br>(16 CFR 1500.52c)        | 0                                   | N/A                                         | N/A                                        | N/A                                     |
| Flexure test<br>(16 CFR 1500.53d)     | 0                                   | N/A                                         | N/A                                        | N/A                                     |
| Torque test<br>(16 CFR 1500.53e)      | 1                                   | Pass                                        | N/A                                        | N/A                                     |
| Tension test<br>(16 CFR 1500.53f)     | 1                                   | Pass                                        | N/A                                        | N/A                                     |
| Compression test<br>(16 CFR 1500.53g) | 0                                   | N/A                                         | N/A                                        | N/A                                     |

US CPSC 16 CFR 1500.19 – MISBRANDED TOYS AND OTHER ARTICLES INTENDED FOR USE BY CHILDREN

AS SPECIFIED IN US CPSC 16 CFR 1500.19 – MISBRANDED TOYS AND OTHER ARTICLES INTENDED FOR USE BY CHILDREN

Appropriate warning according to 16 CFR 1500.19 was found on the principle display panel of the product's packaging.



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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**

E4314 BAMBOO RAPIDO

**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.

**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 w/ light blue coating on wood (Bead) w/ Transparent lacquer coating w/ red, light red coating (Bead) w/ Purple coating on wood (Bead)                               | 5         | 1           | ND              |
| 2. Transparent lacquer coating w/ yellow coating (Bead) + Transparent lacquer coating w/ light green, green coating (Bead) + Transparent lacquer coating (Accessory) w/ Dark red coating (Pattern) | 5         | 2           | ND              |
| 3. Green ink + Yellow ink                                                                                                                                                                          | 5         | 3           | ND              |
| 4. Red ink + Blue ink                                                                                                                                                                              | 5         | 4           | 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 below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight



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As specified in 15 U.S.C. § 2063(a)(5) and Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.

- Tracking label on the packaging: Present

- Tracking label on the product: Present

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.

## ASTM F963-23 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY

AS SPECIFIED IN ASTM F963-23 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clauses relevant to the item:

| Clause  | Description                                                                        | Result                 |
|---------|------------------------------------------------------------------------------------|------------------------|
| 4       | Safety Requirements                                                                |                        |
| 4.1     | Material Quality **                                                                | PASS                   |
| 4.2     | Flammability Test                                                                  | PASS (See Result Page) |
| 4.3     | Toxicology                                                                         |                        |
| 4.3.2   | Manufacturing and Packaging of Food                                                | N/A                    |
| 4.3.3   | Indirect Food Additives                                                            | N/A                    |
| 4.3.4   | Cosmetics                                                                          | N/A                    |
| 4.3.5   | Heavy Elements                                                                     |                        |
| 4.3.5.1 | Heavy Elements in Paint/Similar Surface Coating Materials                          | PASS (See Result Page) |
| 4.3.5.2 | Heavy Metal in Substrate Materials                                                 | PASS (See Result Page) |
| 4.3.6   | Cosmetic, Liquids, Pastes, Putties, Gels, Powders and Item of Avian Feather Origin | PASS                   |
| 4.3.7   | Stuffing Materials                                                                 | N/A                    |
| 4.3.8   | Phthalates                                                                         | PASS (See Result Page) |
| 4.4     | Electrical/Thermal Energy                                                          | N/A                    |
| 4.5     | Sound-producing Toys                                                               | N/A                    |



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| Clause | Description                                                           | Result |
|--------|-----------------------------------------------------------------------|--------|
| 4.6.1  | Small Objects                                                         | N/A    |
| 4.6.2  | Mouth-actuated Toys                                                   | N/A    |
| 4.6.3  | Labelling Requirements                                                | PASS   |
| 4.7    | Accessible Edges                                                      | PASS   |
| 4.8    | Projections                                                           | N/A    |
| 4.9    | Accessible Points                                                     | PASS   |
| 4.10   | Wires or Rods                                                         | N/A    |
| 4.11   | Nails and Fasteners                                                   | N/A    |
| 4.12   | Plastic Film                                                          | N/A    |
| 4.13.1 | Folding Mechanisms                                                    | N/A    |
| 4.13.2 | Hinge-line Clearance                                                  | N/A    |
| 4.14   | Cords, Straps and Elastic                                             | N/A    |
| 4.15   | Stability and Over-load Requirements                                  | N/A    |
| 4.16   | Confined Spaces                                                       | N/A    |
| 4.17   | Wheels, Tires, and Axles                                              | N/A    |
| 4.18   | Holes, Clearance & Accessibility of Mechanisms                        | N/A    |
| 4.19   | Simulated Protective Devices                                          | N/A    |
| 4.20   | Pacifiers                                                             | N/A    |
| 4.21   | Projectile Toys                                                       | N/A    |
| 4.22   | Teethers and Teething Toys                                            | N/A    |
| 4.23   | Rattles                                                               | N/A    |
| 4.24   | Squeeze Toys                                                          | N/A    |
| 4.25   | Battery-operated Toys (Rechargeable battery/Non-rechargeable battery) | N/A    |
| 4.26   | Toys Intended to be Attached to a Crib or Playpen                     | N/A    |
| 4.27   | Stuffed and Beanbag-Type Toys                                         | N/A    |
| 4.28   | Stroller and Carriage Toys                                            | N/A    |
| 4.29   | Art Materials                                                         | N/A    |
| 4.30   | Toy Gun Marking                                                       | N/A    |
| 4.31   | Balloons                                                              | N/A    |
| 4.32   | Certain Toys and Nearly Spherical Ends                                | N/A    |
| 4.33   | Marbles                                                               | N/A    |
| 4.34   | Balls                                                                 | N/A    |
| 4.35   | Pompoms                                                               | N/A    |
| 4.36   | Hemispheric-shaped Objects                                            | N/A    |
| 4.37   | Yo Yo Elastic Tether Toys                                             | N/A    |
| 4.38   | Magnets                                                               | N/A    |



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| Clause | Description                                                                                                                                                                                                                                                                                                                                                                                           | Result     |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 4.39   | Jaw Entrapment in Handles and Steering Wheels                                                                                                                                                                                                                                                                                                                                                         | N/A        |
| 4.40   | Expanding Materials                                                                                                                                                                                                                                                                                                                                                                                   | N/A        |
| 4.41   | Toy Chest                                                                                                                                                                                                                                                                                                                                                                                             | N/A        |
| 5      | Labeling Requirements                                                                                                                                                                                                                                                                                                                                                                                 |            |
| 5.1    | Federal Government Requirements                                                                                                                                                                                                                                                                                                                                                                       |            |
| 5.1.1  | Specific Labeling Requirement                                                                                                                                                                                                                                                                                                                                                                         | See Remark |
|        | (Remark: All toys that fall within the definitions and requirements of the U.S. FHSA shall conform to the labeling requirement of that act. For specific requirements, reference 16 CFR 1500.3, 1500.14, 1500.19, 1500.82, 1500.83, 1500.86, 1500.121, 1500.122, 1500.123, 1500.125, 1500.126, 1500.127, 1500.128, 1500.130, 1505.3, and 1511.7. In addition, state labeling requirements may exist.) |            |
| 5.1.2  | Tracking Label                                                                                                                                                                                                                                                                                                                                                                                        | PASS       |
| 5.2    | Age Grading Labeling                                                                                                                                                                                                                                                                                                                                                                                  | PASS       |
| 5.3    | Safety Labeling Requirements                                                                                                                                                                                                                                                                                                                                                                          | PASS       |
| 5.4    | Aquatic Toys                                                                                                                                                                                                                                                                                                                                                                                          | N/A        |
| 5.5    | Crib & Playpen Toys                                                                                                                                                                                                                                                                                                                                                                                   | N/A        |
| 5.6    | Mobile                                                                                                                                                                                                                                                                                                                                                                                                | N/A        |
| 5.7    | Stroller and Carriage Toys                                                                                                                                                                                                                                                                                                                                                                            | N/A        |
| 5.8    | Toys Intended to be Assembled by an Adult                                                                                                                                                                                                                                                                                                                                                             | N/A        |
| 5.9    | Simulated Protective Devices                                                                                                                                                                                                                                                                                                                                                                          | N/A        |
| 5.10   | Toys with Functional Sharp Edges and Sharp Points                                                                                                                                                                                                                                                                                                                                                     | N/A        |
| 5.11   | Small Objects, Small Balls, Marbles, and Balloons                                                                                                                                                                                                                                                                                                                                                     | PASS       |
| 5.12   | Art Materials                                                                                                                                                                                                                                                                                                                                                                                         | N/A        |
| 5.13   | Electric Toys                                                                                                                                                                                                                                                                                                                                                                                         | N/A        |
| 5.14   | Battery-operated Toys                                                                                                                                                                                                                                                                                                                                                                                 | N/A        |
| 5.15   | Promotional Materials                                                                                                                                                                                                                                                                                                                                                                                 | PASS       |
| 5.16   | Magnets                                                                                                                                                                                                                                                                                                                                                                                               | N/A        |
| 6      | Instructional Literature                                                                                                                                                                                                                                                                                                                                                                              |            |
| 6.2    | Crib & Playpen Toys                                                                                                                                                                                                                                                                                                                                                                                   | N/A        |
| 6.3    | Mobiles                                                                                                                                                                                                                                                                                                                                                                                               | N/A        |
| 6.4    | Toys Intended to be Assembled by an Adult                                                                                                                                                                                                                                                                                                                                                             | N/A        |
| 6.5    | Battery-operated Toys                                                                                                                                                                                                                                                                                                                                                                                 | N/A        |
| 6.6    | Battery-powered Ride-on Toys                                                                                                                                                                                                                                                                                                                                                                          | N/A        |
| 6.7    | Toys in Contact with Food                                                                                                                                                                                                                                                                                                                                                                             | N/A        |
| 6.8    | Toy Chests                                                                                                                                                                                                                                                                                                                                                                                            | N/A        |



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| Clause | Description                                                                                                                   | Result |
|--------|-------------------------------------------------------------------------------------------------------------------------------|--------|
| 6.9    | The instructional material for toys which require a manufacturer-supplied specialty or custom tool to access the battery(ies) | N/A    |
| 7      | Producer's Markings                                                                                                           |        |
| 7.1    | Producer's Markings                                                                                                           | PASS   |
| 7.2    | Battery-powered Ride-on Toys                                                                                                  | N/A    |
| 7.3    | Toy Chests                                                                                                                    | N/A    |
| 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                                                                                                              | N/A    |
| 8.12   | Flexure Test                                                                                                                  | N/A    |
| 8.16   | Tension Test for Pompoms                                                                                                      | N/A    |

Result Page:

Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample

See sample description

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.



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## ASTM F963-23, Clause 4.3.5.1 – Heavy Elements in Paint/Similar Surface Coating Materials

Method: With reference to CPSC-CH-E1003-09.1 / ASTM F963-23 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 w/ light blue coating on wood (Bead) w/ Transparent lacquer coating w/ red, light red coating (Bead) w/ Purple coating on wood (Bead)                               | 7         | 1           | ND              |
| 2. Transparent lacquer coating w/ yellow coating (Bead) + Transparent lacquer coating w/ light green, green coating (Bead) + Transparent lacquer coating (Accessory) w/ Dark red coating (Pattern) | 7         | 2           | ND              |
| 3. Green ink + Yellow ink                                                                                                                                                                          | 7         | 3           | ND              |
| 4. Red ink + Blue ink                                                                                                                                                                              | 7         | 4           | 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                     | 6         | 5           | /                         | ND                                 | ND | ND | ND | ND  |
| 2                     | 6         | 6           | /                         | ND                                 | ND | ND | ND | ND  |
| 3                     | 6         | 7           | /                         | ND                                 | ND | ND | ND | ND  |
| 4                     | 6         | 8           | /                         | ND                                 | ND | 11 | ND | ND  |
| 5                     | 6         | 9           | /                         | ND                                 | ND | 14 | ND | ND  |
| 6                     | 6         | 10          | /                         | ND                                 | ND | ND | ND | ND  |
| 7                     | 6         | 20          | /                         | ND                                 | ND | ND | ND | ND  |
| 8                     | 6         | 21          | /                         | ND                                 | ND | ND | ND | ND  |
| 9                     | 6         | 22          | /                         | ND                                 | ND | ND | ND | ND  |
| 10                    | 6         | 23          | /                         | ND                                 | ND | ND | ND | ND  |



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### Specimen Description:

1. Purple coating on wood (Bead)
2. Transparent lacquer coating w/ light blue coating on wood (Bead)
3. Transparent lacquer coating w/ red, light red coating (Bead)
4. Transparent lacquer coating w/ yellow coating (Bead)
5. Transparent lacquer coating w/ light green, green coating (Bead)
6. Transparent lacquer coating (Accessory)
7. Green ink
8. Yellow ink
9. Red ink
10. Blue ink

- Note:
- ppm = parts per million
  - 1% = 10000 mg/kg = 10000 ppm = 10000 µg/g
  - MDL = Method Detection Limit
  - ND = Not Detected (lower than MDL)

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight
- <sup>Δ</sup> Test result is over the action limit as suggested by CPSC-CH-E1003-09.1. As the result is based on composite test and falls into an uncertain range, where "Pass" or "Fail" cannot be truly defined, "Interim-Fail" is given since the specimen may possibility fail according to the regulatory limit. Individual test is highly recommended to determine the exact Lead content in each component. The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.
- \* Exceeds Permissible Limit

Remark: As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for certain migration elements, as specified in ASTM F963-23 Clause 8.3.3.6 (2) – Selection of Test Portions

Dark red coating (Pattern)



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## ASTM F963-23, Clause 4.3.5.2 – Heavy Elements in Substrate Materials

Method: With reference to CPSC-CH-E1002-08.3 / CPSC-CH-E1001-08.3 / ASTM F963-23 Clause 8.3 / CPSC-CH-E1004-11

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

### 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. White fabric w/ white fabric thread, red printing (Bag) + White fabric w/ white fabric thread, green printing (Bag)    | 8         | 1           | ND              |
| 2. White plastic (Pen) (PP) + Green plastic (Pen) (PP) + Yellow plastic (Pen) (PP)                                        | 8         | 2           | ND              |
| 3. Red plastic (Pen) (PP) + Blue plastic (Pen) (PP)                                                                       | 8         | 3           | ND              |
| 4. Translucent white soft plastic (Accessory) + Transparent plastic film (Card) w/ White soft plastic core (Elastic cord) | 9         | 1           | 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) -- 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                                                  | 6         | 1           | /                         | ND                                 | ND | ND  | ND   | ND | ND | ND | ND  |
| 2                                                  | 6         | 2           | /                         | ND                                 | ND | ND  | ND   | ND | ND | ND | ND  |
| 3                                                  | 6         | 3           | /                         | ND                                 | ND | ND  | ND   | ND | ND | ND | ND  |
| 4                                                  | 6         | 4           | /                         | ND                                 | ND | ND  | ND   | ND | ND | ND | ND  |
| 5                                                  | 6         | 11          | /                         | ND                                 | ND | ND  | ND   | ND | ND | ND | ND  |
| 6                                                  | 6         | 12          | 34.9                      | ND                                 | ND | ND  | ND   | ND | ND | ND | ND  |
| 7                                                  | 6         | 13          | /                         | ND                                 | ND | ND  | ND   | ND | ND | ND | ND  |
| 8                                                  | 6         | 14          | /                         | ND                                 | ND | ND  | ND   | ND | ND | ND | ND  |
| 9                                                  | 6         | 15          | /                         | ND                                 | ND | ND  | ND   | ND | ND | ND | ND  |
| 10                                                 | 6         | 16          | /                         | ND                                 | ND | ND  | ND   | ND | ND | ND | ND  |
| 11                                                 | 6         | 17          | /                         | ND                                 | ND | ND  | ND   | ND | ND | ND | ND  |
| 12                                                 | 6         | 18          | /                         | ND                                 | ND | ND  | ND   | ND | ND | ND | ND  |
| 13                                                 | 6         | 19          | /                         | ND                                 | ND | ND  | ND   | ND | ND | ND | ND  |
| 14                                                 | 6         | 25          | 57.0                      | ND                                 | ND | ND  | ND   | ND | ND | ND | ND  |



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### Specimen Description:

1. Light cream woven cord (Bag)
2. White fabric w/ white fabric thread, red printing (Bag)
3. White fabric w/ white fabric thread, green printing (Bag)
4. White woven cord
5. Translucent white soft plastic (Accessory)
6. Cream woven cord (Elastic cord)
7. Transparent plastic film (Card)
8. White plastic (Pen) (PP)
9. Green plastic (Pen) (PP)
10. Yellow plastic (Pen) (PP)
11. Red plastic (Pen) (PP)
12. Blue plastic (Pen) (PP)
13. White fiber
14. White soft plastic core (Elastic cord)

- Note:
- ppm = parts per million
  - µg/component = microgramme per component
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit
  - 1% = 10000 mg/kg = 10000 ppm

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- <sup>Δ</sup> Test result is over recommended action limit (80% of the regulatory limit). As the result is based on composite test and falls into an uncertain range, where "Pass" or "Fail" cannot be truly defined, "Interim-Fail" is given since the specimen may possibility fail according to the regulatory limit. Individual test is highly recommended to determine the exact Lead content in each component. The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.
- + Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight
- \* Exceeds Permissible Limit



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## Standard Consumer Safety Specification on Toy Safety, ASTM F963-23, Clause 4.3.8 – Phthalate Content

Method: With reference to CPSC-CH-C1001-09.4

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) / High Performance Liquid Chromatography with Mass Spectrometer (HPLC-MS)

| Test Item(s)                                                  | CAS No.                  | Result (s) (%) |    | MDL (%) | Permissible Limit (%) |
|---------------------------------------------------------------|--------------------------|----------------|----|---------|-----------------------|
| Specimen No.                                                  | --                       | 1              | 2  |         |                       |
| Alias No.                                                     | --                       | 13             | 13 |         |                       |
| Tracing No.                                                   | --                       | 1              | 2  |         |                       |
| Dibutyl Phthalate (DBP)                                       | 84-74-2                  | ND             | ND | 0.003   | 0.1                   |
| Benzylbutyl Phthalate (BBP)                                   | 85-68-7                  | ND             | ND | 0.003   | 0.1                   |
| Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP) | 117-81-7                 | ND             | ND | 0.003   | 0.1                   |
| Diisononyl Phthalate (DINP)                                   | 28553-12-0<br>68515-48-0 | ND             | ND | 0.010   | 0.1                   |
| Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)                         | 84-75-3                  | ND             | ND | 0.003   | 0.1                   |
| Diisobutyl phthalate (DIBP)                                   | 84-69-5                  | ND             | ND | 0.003   | 0.1                   |
| Di-n-pentyl phthalate (DPP/DPEP/DPENP)                        | 131-18-0                 | ND             | ND | 0.003   | 0.1                   |
| Dicyclohexyl phthalate (DCHP)                                 | 84-61-7                  | ND             | ND | 0.003   | 0.1                   |

| Test Item(s)                                                  | CAS No.                  | Result (s) (%) |    | MDL (%) | Permissible Limit (%) |
|---------------------------------------------------------------|--------------------------|----------------|----|---------|-----------------------|
| Specimen No.                                                  | --                       | 3              | 4  |         |                       |
| Alias No.                                                     | --                       | 13             | 13 |         |                       |
| Tracing No.                                                   | --                       | 3              | 4  |         |                       |
| Dibutyl Phthalate (DBP)                                       | 84-74-2                  | ND             | ND | 0.003   | 0.1                   |
| Benzylbutyl Phthalate (BBP)                                   | 85-68-7                  | ND             | ND | 0.003   | 0.1                   |
| Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP) | 117-81-7                 | 0.007          | ND | 0.003   | 0.1                   |
| Diisononyl Phthalate (DINP)                                   | 28553-12-0<br>68515-48-0 | ND             | ND | 0.010   | 0.1                   |
| Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)                         | 84-75-3                  | ND             | ND | 0.003   | 0.1                   |
| Diisobutyl phthalate (DIBP)                                   | 84-69-5                  | ND             | ND | 0.003   | 0.1                   |
| Di-n-pentyl phthalate (DPP/DPEP/DPENP)                        | 131-18-0                 | ND             | ND | 0.003   | 0.1                   |
| Dicyclohexyl phthalate (DCHP)                                 | 84-61-7                  | ND             | ND | 0.003   | 0.1                   |



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### Specimen Description:

1. White plastic (Pen) (PP) + Green plastic (Pen) (PP) + Yellow plastic (Pen) (PP)
2. Red plastic (Pen) (PP) + Blue plastic (Pen) (PP)
3. Translucent white soft plastic (Accessory) + Transparent plastic film (Card)
4. White soft plastic core (Elastic cord)

Note:

- % = percentage by weight
- MDL = Method Detection Limit
- ND = Not Detected (lower than MDL)
- 1% = 10000 mg/kg = 10000 ppm

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight
- <sup>Δ</sup> Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component
- \* Exceeds Permissible Limit



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## 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 w/ light blue coating on wood (Bead) w/ Transparent lacquer coating w/ red, light red coating (Bead) w/ Purple coating on wood (Bead)                               | 10        | 1           | ND              |
| 2. Transparent lacquer coating w/ yellow coating (Bead) + Transparent lacquer coating w/ light green, green coating (Bead) + Transparent lacquer coating (Accessory) w/ Dark red coating (Pattern) | 10        | 2           | ND              |
| 3. Green ink + Yellow ink                                                                                                                                                                          | 10        | 3           | ND              |
| 4. Red ink + Blue ink                                                                                                                                                                              | 10        | 4           | 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 below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight
- <sup>Δ</sup> Test result is over the action limit as suggested by CPSC-CH-E1003-09.1. As the result is based on composite test and falls into an uncertain range, where "Pass" or "Fail" cannot be truly defined, "Interim-Fail" is given since the specimen may possibility fail according to the regulatory limit. Individual test is highly recommended to determine the exact Lead content in each component. The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.
- \* Exceeds Permissible Limit



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## 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. White fabric w/ white fabric thread, red printing (Bag) + White fabric w/ white fabric thread, green printing (Bag)    | 11        | 1           | ND              |
| 2. White plastic (Pen) (PP) + Green plastic (Pen) (PP) + Yellow plastic (Pen) (PP)                                        | 11        | 2           | ND              |
| 3. Red plastic (Pen) (PP) + Blue plastic (Pen) (PP)                                                                       | 11        | 3           | ND              |
| 4. Translucent white soft plastic (Accessory) + Transparent plastic film (Card) w/ White soft plastic core (Elastic cord) | 12        | 1           | 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 below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- <sup>Δ</sup> Test result is over recommended action limit (80% of the regulatory limit). As the result is based on composite test and falls into an uncertain range, where "Pass" or "Fail" cannot be truly defined, "Interim-Fail" is given since the specimen may possibility fail according to the regulatory limit. Individual test is highly recommended to determine the exact Lead content in each component. The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.
- + Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight
- \* Exceeds Permissible Limit



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

### Note:

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N/A = Not Applicable

\*\* = Visual Examination

DNI = Did Not Ignite

SE = Self-Extinguishing

IBE = Ignite But Self-Extinguished

SE within 50mm = Self-extinguished within 50 mm of flame application

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2. The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012). When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability( $k=2$ ),  $w = U_{95}$ . The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit ( $T_U$ ):

Pass - when the measurement result is below  $T_U - U_{95}$

Fail - when the measurement result is above  $T_U + U_{95}$

Inconclusive - when the measurement result is falling in guard band [ $T_U - U_{95}$ ,  $T_U + U_{95}$ ]

For Lower Tolerance Limit ( $T_L$ ):

Pass - when the measurement result is above  $T_L + U_{95}$

Fail - when the measurement result is below  $T_L - U_{95}$

Inconclusive - when the measurement result is falling in guard band [ $T_L - U_{95}$ ,  $T_L + U_{95}$ ]



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