

## TEST REPORT

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The results relate only to the item tested.

Number: BKKH19011144

Applicant: PLAN CREATIONS CO., LTD.  
8 MOO 8, TRANG-PALIAN RD.,  
YANTAKAO, TRANG, THAILAND 92140  
ATTN: K.NARONG, K.SUPAPORN

Date: Sep 17, 2019

### Sample description:

|                            |                    |
|----------------------------|--------------------|
| Quantity of sample:        | One (1) set        |
| Sample description:        | Wooden toy         |
| Date sample received:      | August 26, 2019    |
| Date information received: | September 11, 2019 |

### Client Information:

One (1) set of submitted sample said to be BEADS RATTLE

|              |              |
|--------------|--------------|
| Item Name:   | BEADS RATTLE |
| Item Number: | 5262         |



BKKH19011144

### Test conducted:

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

To be continued

For and on behalf of :  
Intertek Testing Services (Thailand) Ltd.,  
Hardlines Laboratory

*Ladtaka*

Ladtaka Wongwiboonporn  
Laboratory Manager  
Hardlines Department

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### Conclusion:

#### Tested samples

Submitted sample

#### Standard

U.S. ASTM F963-17 for Physical and mechanical tests

#### Result

Pass

U.S. ASTM F963-17 for Flammability test of materials  
other than textile materials

Pass

U.S. ASTM F963-17  
for Heavy elements Test

Pass

#### Standard - U.S. CFR title 16

(CPSC regulations)  
Part 1303 total Lead content

Pass

#### Standard

U.S. Consumer product safety improvement  
Act 2008(H.R. 4040) Title I, Section 101  
For total lead content in surface coating

Pass

U.S. Consumer product safety improvement  
Act 2008(H.R. 4040) Title I, Section 101  
For total lead content in non-surface coating material (substrate)

Pass

US 16 CFR Part 1307 for Prohibition of Children's Toys  
and Child Care Articles Containing Specified Phthalates

Pass

Phthalate Content Requirement base  
on the California Proposition 65

Pass

Illinois Lead Poisoning Prevention  
Act 410 ILCS 45 section 6 (public act 095-1019)

Pass

Remark: As requested by the applicant, the test was conducted only on components listed in this report.  
Other components were not tested.

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**Remark:**

The chemical test results was not conducted on the below components of samples. Applicant claimed the components were tested on our previous test report.

| <u>Components</u>                | <u>Report No.</u> | <u>Date</u>  |
|----------------------------------|-------------------|--------------|
| <u>ASTM F963-17: Heavy metal</u> |                   |              |
| WHITE COATING ON WOOD            | BKKH19007793S1    | Jul 15, 2019 |
| LACQUER COATING ON WOOD          | BKKH19007792S1    | Jul 15, 2019 |
| BROWN COATING ON WOOD            | BKKH19007791S1    | Jul 15, 2019 |
| LIGHT ORANGE COATING ON WOOD     | BKKH19009836      | Aug 15, 2019 |
| BLUE COATING ON WOOD (No.4)      | BKKH19008028S1    | Jul 18, 2019 |
| WHITE ELASTIC                    | BKKH19008026S1    | Jul 18, 2019 |
| <u>Lead in surface coating</u>   |                   |              |
| WHITE COATING ON WOOD            | BKKH19007793S1    | Jul 15, 2019 |
| LACQUER COATING ON WOOD          | BKKH19007792S1    | Jul 15, 2019 |
| BROWN COATING ON WOOD            | BKKH19007791S1    | Jul 15, 2019 |
| LIGHT ORANGE COATING ON WOOD     | BKKH19009836      | Aug 15, 2019 |
| BLUE COATING ON WOOD (No.4)      | BKKH19008028S1    | Jul 18, 2019 |
| <u>Lead in substrate</u>         |                   |              |
| WHITE ELASTIC                    | BKKH19008026S1    | Jul 18, 2019 |
| <u>Phthalate content</u>         |                   |              |
| WHITE COATING ON WOOD            | BKKH19007793S1    | Jul 15, 2019 |
| LACQUER COATING ON WOOD          | BKKH19007792S1    | Jul 15, 2019 |
| WHITE ELASTIC                    | BKKH19008026S1    | Jul 18, 2019 |
| BROWN COATING ON WOOD            | BKKH19007791S1    | Jul 15, 2019 |
| LIGHT ORANGE COATING ON WOOD     | BKKH19009836      | Aug 15, 2019 |
| BLUE COATING ON WOOD (No.4)      | BKKH19008028S1    | Jul 18, 2019 |

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Test conducted:

### 1 Physical And Mechanical Tests

Test Standard : ASTM Standard Consumer Safety Specification for Toy Safety F963-17.

Applicant's specified testing age : For age over 4 months.

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> |
|------------------|--------------------|------------------|
| Drop test        | Section 1500.51(b) | 10 x 4.5 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>Clause</u>                               | <u>Testing items</u>                                           | <u>Assessment</u> |
|---------------------------------------------|----------------------------------------------------------------|-------------------|
| 4.1                                         | Material quality                                               | P                 |
| 4.5                                         | Sound-producing toys                                           | P *1              |
| 4.6.1                                       | Toys intended for children under 36 months (small objects)     | P                 |
| 4.6.2 <sup>▲</sup>                          | Mouth-actuated toys                                            | NA                |
| 4.6.3                                       | Toys and games for 36 months to 72 months (small part warning) | NA                |
| 4.7                                         | Accessible edges                                               | NA                |
| 4.8                                         | Projections                                                    | NA                |
| 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<br>(excluding<br>4.20.1 <sup>▲</sup> ) | Pacifiers                                                      | NA                |
| 4.21                                        | Projectile toys                                                | NA                |
| 4.22                                        | Teethers and teething toys                                     | NA                |

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Test conducted:

| Clause                                                   | Testing items                                                                      | Assessment |
|----------------------------------------------------------|------------------------------------------------------------------------------------|------------|
| 4.23                                                     | Rattles                                                                            | P          |
| 4.24                                                     | Squeeze toys                                                                       | NA         |
| 4.25<br>(excluding<br>4.25.10,<br>4.25.11 <sup>▲</sup> ) | 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         |
| 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 <sup>▲</sup>                                        | Yoyo 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<br>- name of producer (toy and package)<br>- address (package) | Yes<br>Yes |

Remark : P = Pass NA = Not applicable

<sup>▲</sup> = Tested items are not included in the TISI Accreditation

The submitted samples were undergone the tests in accordance with clause 8.5 through clause 8.17 and 8.19 through 8.26 on normal use, abuse and specific tests for different types of toys whichever is applicable.

Testing period : August 27, 2019 to September 09, 2019

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Number: BKKH19011144

Test conducted:

\*1 Sound producing toys test

Test Standard : ASTM Standard Consumer Safety Specification on Toy Safety F963-17, clause 4.5.

| Clause  | Test item                                                                                                                                                                    | Assessment |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 4.5.1.1 | A-weighted equivalent sound pressure level, $L_{Aeq}$ , produced by close to the ear toys.                                                                                   | NA         |
| 4.5.1.2 | Maximum A-weighted sound pressure level, $L_{AFmax}$ , produced by the translational motion of floor or table top toys where the motion is imparted on the toy by the child. | NA         |
| 4.5.1.3 | A-weighted equivalent sound pressure level, $L_{Aeq}$ , produced by all other toys.                                                                                          | NA         |
| 4.5.1.4 | C-weighted peak sound pressure level, $L_{Cpeak}$ , produced by close to the ear toys.                                                                                       | NA         |
| 4.5.1.5 | C-weighted peak sound pressure level, $L_{Cpeak}$ , produced by any type of toy excluding toys using explosive action.                                                       | P          |
| 4.5.1.6 | C-weighted peak sound pressure level, $L_{Cpeak}$ , produced by a toy using percussion caps or other explosive action.                                                       | NA         |

Remark : P = Pass NA = Not applicable

Measured data:

| <u>Tested component</u> | <u>Peak sound pressure level (<math>L_{Cpeak}</math>)</u> | <u>Limit (db)</u> |
|-------------------------|-----------------------------------------------------------|-------------------|
| BEADS RATTLE            | 103.5                                                     | 115               |

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Number: BKKH19011144

Test conducted:

### 2 Flammability Test

Test Standard : Clause 4.2 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-17.

Results : Did not ignite

Testing period : August 27, 2019 to September 09, 2019

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Number: BKKH19011144

Test conducted:

### 3 Heavy Elements Analysis

As per clause 4.3.5.1(2) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, acid extraction method was used and heavy elements migration content were determined by ICP-OES analysis.

|                    |     |     | <u>Result</u><br><u>mg/kg</u> |     |     | <u>LOD</u><br><u>mg/kg</u> | <u>LOQ</u><br><u>mg/kg</u> | <u>Limit mg/kg</u> |
|--------------------|-----|-----|-------------------------------|-----|-----|----------------------------|----------------------------|--------------------|
|                    | (1) | (2) | (3)                           | (4) | (5) |                            |                            |                    |
| Sol. Barium (Ba)   | ND  | ND  | ND                            | <5  | ND  | 1                          | 5                          | 1000               |
| Sol. Lead (Pb)     | ND  | ND  | ND                            | <5  | ND  | 1                          | 5                          | 90                 |
| Sol. Cadmium (Cd)  | ND  | ND  | ND                            | ND  | ND  | 1                          | 5                          | 75                 |
| Sol. Antimony (Sb) | ND  | ND  | ND                            | ND  | ND  | 2                          | 5                          | 60                 |
| Sol. Selenium (Se) | ND  | ND  | ND                            | ND  | ND  | 1                          | 5                          | 500                |
| Sol. Chromium (Cr) | ND  | ND  | ND                            | ND  | ND  | 2                          | 5                          | 60                 |
| Sol. Mercury (Hg)  | ND  | ND  | ND                            | ND  | ND  | 1                          | 5                          | 60                 |
| Sol. Arsenic (As)  | ND  | ND  | ND                            | ND  | ND  | 2                          | 5                          | 25                 |

Remark:

Sol. = Soluble  
mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million  
LOD = Limit of Detection  
ND = Not detected (Less than LOD)

LOQ = Limit of Quantitation  
< = Less than

Tested components:

|                                    |       |                |
|------------------------------------|-------|----------------|
| (1) = WHITE COATING ON WOOD        | Refer | BKKH19007793S1 |
| (2) = LACQUER COATING ON WOOD      | Refer | BKKH19007792S1 |
| (3) = BROWN COATING ON WOOD        | Refer | BKKH19007791S1 |
| (4) = LIGHT ORANGE COATING ON WOOD | Refer | BKKH19009836   |
| (5) = BLUE COATING ON WOOD (No.4)  | Refer | BKKH19008028S1 |

Note: The results of soluble toxic elements were adjusted by subtracting the analytical correction factor.

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Number: BKKH19011144

Test conducted:

### Heavy Elements Analysis

As per clause 4.3.5.2(2)(b) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, acid extraction method was used and heavy elements migration content were determined by ICP-OES analysis.

|                    | <u>Result</u><br><u>mg/kg</u> | <u>LOD</u><br><u>mg/kg</u> | <u>LOQ</u><br><u>mg/kg</u> | <u>Limit mg/kg</u> |
|--------------------|-------------------------------|----------------------------|----------------------------|--------------------|
| (6)                |                               |                            |                            |                    |
| Sol. Barium (Ba)   | ND                            | 1                          | 5                          | 1000               |
| Sol. Lead (Pb)     | ND                            | 1                          | 5                          | 90                 |
| Sol. Cadmium (Cd)  | ND                            | 1                          | 5                          | 75                 |
| Sol. Antimony (Sb) | ND                            | 2                          | 5                          | 60                 |
| Sol. Selenium (Se) | ND                            | 1                          | 5                          | 500                |
| Sol. Chromium (Cr) | ND                            | 2                          | 5                          | 60                 |
| Sol. Mercury (Hg)  | ND                            | 1                          | 5                          | 60                 |
| Sol. Arsenic (As)  | ND                            | 2                          | 5                          | 25                 |

Remark: Sol. = Soluble  
mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million  
LOD = Limit of Detection LOQ = Limit of Quantitation  
ND = Not detected (Less than LOD) < = Less than

Tested components:

(6) = WHITE ELASTIC

Refer BKKH19008026S1

Note: The results of soluble toxic elements were adjusted by subtracting the analytical correction factor.

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Test conducted:

### Total Lead (Pb) Content

As per clause 4.3.5.1(1) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, test method CPSC-CH-E1003-09.1:2011 was used and total Lead content was determined by ICP-OES analysis.

#### (I) Surface coating

| <u>Tested Component</u> | <u>Result</u><br><u>mg/kg</u> | <u>LOD</u><br><u>(mg/kg)</u> | <u>LOQ</u><br><u>(mg/kg)</u> | <u>Limit</u><br><u>(mg/kg)</u> |
|-------------------------|-------------------------------|------------------------------|------------------------------|--------------------------------|
| (1)                     | ND                            | 2                            | 13                           | 90                             |
| (2)                     | ND                            | 2                            | 13                           | 90                             |
| (3)                     | ND                            | 2                            | 13                           | 90                             |
| (4)                     | <13                           | 2                            | 13                           | 90                             |
| (5)                     | ND                            | 2                            | 13                           | 90                             |

Remark: mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million  
 LOD = Limit of Detection LOQ = Limit of Quantitation  
 ND = Not detected (Less than LOD) < = Less than

Tested components:

|                                    |       |                |
|------------------------------------|-------|----------------|
| (1) = WHITE COATING ON WOOD        | Refer | BKKH19007793S1 |
| (2) = LACQUER COATING ON WOOD      | Refer | BKKH19007792S1 |
| (3) = BROWN COATING ON WOOD        | Refer | BKKH19007791S1 |
| (4) = LIGHT ORANGE COATING ON WOOD | Refer | BKKH19009836   |
| (5) = BLUE COATING ON WOOD (No.4)  | Refer | BKKH19008028S1 |

### Total Lead (Pb) Content

As per clause 4.3.5.2(a) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, test method CPSC-CH-E1001-08.3:2012, CPSC-CH-E1002-08.3:2012 were used and total Lead content was determined by ICP-OES analysis.

#### (II) Non-surface coating

| <u>Tested Component</u> | <u>Result</u><br><u>mg/kg</u> | <u>LOD</u><br><u>(mg/kg)</u> | <u>LOQ</u><br><u>(mg/kg)</u> | <u>Limit</u><br><u>(mg/kg)</u> |
|-------------------------|-------------------------------|------------------------------|------------------------------|--------------------------------|
| (6)                     | ND                            | 1                            | 13                           | 100                            |

Remark: mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million  
 LOD = Limit of Detection LOQ = Limit of Quantitation  
 ND = Not detected (Less than LOD) < = Less than

Tested components:

|                     |       |                |
|---------------------|-------|----------------|
| (6) = WHITE ELASTIC | Refer | BKKH19008026S1 |
|---------------------|-------|----------------|

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Test conducted:

## 4

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 Couple Plasma Optical Emission Spectrometry

| <u>Tested component</u> | <u>Result %</u> | <u>LOD %</u> | <u>LOQ %</u> | <u>Limit %</u> |
|-------------------------|-----------------|--------------|--------------|----------------|
| (1)                     | ND              | 0.0002       | 0.0013       | 0.0090         |
| (2)                     | ND              | 0.0002       | 0.0013       | 0.0090         |
| (3)                     | ND              | 0.0002       | 0.0013       | 0.0090         |
| (4)                     | <0.0013         | 0.0002       | 0.0013       | 0.0090         |
| (5)                     | ND              | 0.0002       | 0.0013       | 0.0090         |

Remark: % = percentage < = Less than  
LOD = Limit of Detection LOQ = Limit of Quantitation  
ND = Not detected (Less than LOD)  
▲ = Tested items are not included in the TISI Accreditation

Tested components:

|       |                              |       |                |
|-------|------------------------------|-------|----------------|
| (1) = | WHITE COATING ON WOOD        | Refer | BKKH19007793S1 |
| (2) = | LACQUER COATING ON WOOD      | Refer | BKKH19007792S1 |
| (3) = | BROWN COATING ON WOOD        | Refer | BKKH19007791S1 |
| (4) = | LIGHT ORANGE COATING ON WOOD | Refer | BKKH19009836   |
| (5) = | BLUE COATING ON WOOD (No.4)  | Refer | BKKH19008028S1 |

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Number: BKKH19011144

Test conducted:

- 5 Total lead (Pb) content in surface coating  
As per U.S. Consumer Product Safety Improvement Act of 2008 (H.R. 4040), Title I, Section 101 for children's products containing Lead, CPSC-CH-E1003-09.1:2011 method was used and total Lead content was determined by Inductively Couple Plasma Optical Emission Spectrometry.

| <u>Tested component</u> | <u>Result</u><br><u>mg/kg</u> | <u>LOD</u><br><u>mg/kg</u> | <u>LOQ</u><br><u>mg/kg</u> | <u>Limit mg/kg</u> |
|-------------------------|-------------------------------|----------------------------|----------------------------|--------------------|
| (1)                     | ND                            | 2                          | 13                         | 90                 |
| (2)                     | ND                            | 2                          | 13                         | 90                 |
| (3)                     | ND                            | 2                          | 13                         | 90                 |
| (4)                     | <13                           | 2                          | 13                         | 90                 |
| (5)                     | ND                            | 2                          | 13                         | 90                 |

Remark: mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million  
LOD = Limit of Detection LOQ = Limit of Quantitation  
ND = Not detected (Less than LOD) < = Less than

Tested components:

|                                    |                      |
|------------------------------------|----------------------|
| (1) = WHITE COATING ON WOOD        | Refer BKKH19007793S1 |
| (2) = LACQUER COATING ON WOOD      | Refer BKKH19007792S1 |
| (3) = BROWN COATING ON WOOD        | Refer BKKH19007791S1 |
| (4) = LIGHT ORANGE COATING ON WOOD | Refer BKKH19009836   |
| (5) = BLUE COATING ON WOOD (No.4)  | Refer BKKH19008028S1 |

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Number: BKKH19011144

Test conducted:

6 Total lead (Pb) content in substrate material- non-metal children's product

As per U.S. Consumer product safety improvement Act of 2008 (H.R. 4040), Title I, Section 101 for children's products containing lead, CPSC-CH-E1002-08.3:2012 method was used and total lead content was determined by Inductively Couple Plasma Optical Emission Spectrometry.

| <u>Tested component</u> | <u>Result</u> | <u>LOD</u>   | <u>LOQ</u>   | <u>Limit mg/kg</u> |
|-------------------------|---------------|--------------|--------------|--------------------|
|                         | <u>mg/kg</u>  | <u>mg/kg</u> | <u>mg/kg</u> |                    |
| (1)                     | ND            | 1            | 13           | 100                |

Remark: mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million  
 LOD = Limit of Detection LOQ = Limit of Quantitation  
 ND = Not detected (Less than LOD) < = Less than

Tested components:

(1) = WHITE ELASTIC

Refer BKKH19008026S1

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Number: BKKH19011144

Test conducted:

### 7 Phthalate content

As per CPSC-CH-C1001-09.3:2010 and U.S. Consumer Product Safety Improvement Act 2008 (H.R. 4040), Title I, Section 108 requirement on Phthalates, solvent extraction method was used and Phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

|                                             | <u>Result</u><br>(%, w/w) |     |     |     |     | <u>LOD</u><br>(%, w/w) | <u>LOQ</u><br>(%, w/w) | <u>(16CFR1307)</u><br>Limit (%, w/w) | <u>NPR</u><br>(%, w/w) |
|---------------------------------------------|---------------------------|-----|-----|-----|-----|------------------------|------------------------|--------------------------------------|------------------------|
|                                             | (1)                       | (2) | (3) | (4) | (5) |                        |                        |                                      |                        |
| Dibutyl Phthalate (DBP)                     | ND                        | ND  | ND  | ND  | ND  | 0.0015                 | 0.0030                 | 0.1                                  | 0.1                    |
| Di(2-ethylhexyl) phthalate (DEHP)           | ND                        | ND  | ND  | ND  | ND  | 0.0015                 | 0.0030                 | 0.1                                  | 0.1                    |
| Benzyl butyl Phthalate (BBP)                | ND                        | ND  | ND  | ND  | ND  | 0.0015                 | 0.0030                 | 0.1                                  | 0.1                    |
| Di-iso-nonyl Phthalate (DINP)               | ND                        | ND  | ND  | ND  | ND  | 0.0015                 | 0.0090                 | 0.1                                  | 0.1                    |
| Di-n-octyl Phthalate (DNOP)                 | ND                        | ND  | ND  | ND  | ND  | 0.0015                 | 0.0030                 | --                                   | --                     |
| Di-iso-decyl Phthalate (DIDP)               | ND                        | ND  | ND  | ND  | ND  | 0.0015                 | 0.0090                 | --                                   | --                     |
| Di-isobutyl phthalate (DIBP) <sup>▲</sup>   | ND                        | ND  | ND  | ND  | ND  | 0.0015                 | 0.0030                 | 0.1                                  | 0.1                    |
| Di-n-pentyl phthalate (DPENP) <sup>▲</sup>  | ND                        | ND  | ND  | ND  | ND  | 0.0015                 | 0.0030                 | 0.1                                  | 0.1                    |
| Di-n-hexyl phthalate (DHEXP) <sup>▲</sup>   | ND                        | ND  | ND  | ND  | ND  | 0.0015                 | 0.0030                 | 0.1                                  | 0.1                    |
| Di-cyclohexyl phthalate (DCHP) <sup>▲</sup> | ND                        | ND  | ND  | ND  | ND  | 0.0015                 | 0.0030                 | 0.1                                  | 0.1                    |
| Diisooctyl phthalate (DIOP) <sup>▲</sup>    | ND                        | ND  | ND  | ND  | ND  | 0.0015                 | 0.0090                 | --                                   | --                     |

Remark : The above limit was quoted according to US 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates except the Phthalate no.5-6,11 was conducted as per applicant requested only.

NPR = Notice of proposed rulemaking

%, w/w = Percentage weight by weight

LOD = Limit of Detection

LOQ = Limit of Quantitation

ND = Not detected (Less than LOD)

▲ = Tested items are not included in the TISI Accreditation

Tested components:

|                                    |       |                |
|------------------------------------|-------|----------------|
| (1) = WHITE COATING ON WOOD        | Refer | BKKH19007793S1 |
| (2) = LACQUER COATING ON WOOD      | Refer | BKKH19007792S1 |
| (3) = WHITE ELASTIC                | Refer | BKKH19008026S1 |
| (4) = BROWN COATING ON WOOD        | Refer | BKKH19007791S1 |
| (5) = LIGHT ORANGE COATING ON WOOD | Refer | BKKH19009836   |

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## TEST REPORT

The report shall not be reproduced without written approval from Intertek

The results relate only to the item tested.

Number: BKKH19011144

Test conducted:

### Phthalate content

As per CPSC-CH-C1001-09.3:2010 and U.S. Consumer Product Safety Improvement Act 2008 (H.R. 4040), Title I, Section 108 requirement on Phthalates, solvent extraction method was used and Phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

|                                   | <u>Result</u><br>(%, w/w) | <u>LOD</u><br>(%, w/w) | <u>LOQ</u><br>(%, w/w) | <u>(16CFR1307)</u><br>Limit (%, w/w) | <u>NPR</u><br>(%, w/w) |
|-----------------------------------|---------------------------|------------------------|------------------------|--------------------------------------|------------------------|
| (6)                               |                           |                        |                        |                                      |                        |
| Dibutyl Phthalate (DBP)           | ND                        | 0.0015                 | 0.0030                 | 0.1                                  | 0.1                    |
| Di(2-ethylhexyl) phthalate (DEHP) | ND                        | 0.0015                 | 0.0030                 | 0.1                                  | 0.1                    |
| Benzyl butyl Phthalate (BBP)      | ND                        | 0.0015                 | 0.0030                 | 0.1                                  | 0.1                    |
| Di-iso-nonyl Phthalate (DINP)     | ND                        | 0.0015                 | 0.0090                 | 0.1                                  | 0.1                    |
| Di-n-octyl Phthalate (DNOP)       | ND                        | 0.0015                 | 0.0030                 | --                                   | --                     |
| Di-iso-decyl Phthalate (DIDP)     | ND                        | 0.0015                 | 0.0090                 | --                                   | --                     |
| Di-isobutyl phthalate (DIBP)▲     | ND                        | 0.0015                 | 0.0030                 | 0.1                                  | 0.1                    |
| Di-n-pentyl phthalate (DPENP)▲    | ND                        | 0.0015                 | 0.0030                 | 0.1                                  | 0.1                    |
| Di-n-hexyl phthalate (DHEXP)▲     | ND                        | 0.0015                 | 0.0030                 | 0.1                                  | 0.1                    |
| Di-cyclohexyl phthalate (DCHP)▲   | ND                        | 0.0015                 | 0.0030                 | 0.1                                  | 0.1                    |
| Diisooctyl phthalate (DIOP)▲      | ND                        | 0.0015                 | 0.0090                 | --                                   | --                     |

Remark : The above limit was quoted according to US 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates except the Phthalate no.5-6,11 was conducted as per applicant requested only.

NPR = Notice of proposed rulemaking

%, w/w = Percentage weight by weight

LOD = Limit of Detection

LOQ = Limit of Quantitation

ND = Not detected (Less than LOD)

▲ = Tested items are not included in the TISI Accreditation

Tested components:

(6) = BLUE COATING ON WOOD (No.4)

Refer BKKH19008028S1

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## TEST REPORT

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The results relate only to the item tested.

Number: BKKH19011144

Test conducted:

### 8 Phthalate content test▲

By solvent extraction and Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

|                                   | <u>Result</u>   |     |     |     |     | <u>LOD</u>      | <u>LOQ</u>      | <u>Limit</u>    |
|-----------------------------------|-----------------|-----|-----|-----|-----|-----------------|-----------------|-----------------|
|                                   | <u>(%, w/w)</u> |     |     |     |     | <u>(%, w/w)</u> | <u>(%, w/w)</u> | <u>(%, w/w)</u> |
|                                   | (1)             | (2) | (3) | (4) | (5) |                 |                 |                 |
| Dibutyl Phthalate (DBP)           | ND              | ND  | ND  | ND  | ND  | 0.0015          | 0.0030          | 0.1             |
| Di(2-ethylhexyl) phthalate (DEHP) | ND              | ND  | ND  | ND  | ND  | 0.0015          | 0.0030          | 0.1             |
| Benzyl butyl Phthalate (BBP)      | ND              | ND  | ND  | ND  | ND  | 0.0015          | 0.0030          | 0.1             |
| Di-iso-nonyl Phthalate (DINP)     | ND              | ND  | ND  | ND  | ND  | 0.0015          | 0.0090          | 0.1             |
| Di-octyl Phthalate (DNOP)         | ND              | ND  | ND  | ND  | ND  | 0.0015          | 0.0030          | 0.1             |
| Di-iso-decyl Phthalate (DIDP)     | ND              | ND  | ND  | ND  | ND  | 0.0015          | 0.0090          | 0.1             |
| Di-n-hexyl Phthalate (DnHP)       | ND              | ND  | ND  | ND  | ND  | 0.0015          | 0.0030          | 0.1             |

Remark : % , w/w = Percentage weight by weight

LOD = Limit of Detection

LOQ = Limit of Quantitation

ND = Not detected (Less than LOD)

▲ = Tested items are not included in the TISI Accreditation

Note : The above limit was quoted according to the California Proposition 65

Tested components:

|                                    |       |                |
|------------------------------------|-------|----------------|
| (1) = WHITE COATING ON WOOD        | Refer | BKKH19007793S1 |
| (2) = LACQUER COATING ON WOOD      | Refer | BKKH19007792S1 |
| (3) = WHITE ELASTIC                | Refer | BKKH19008026S1 |
| (4) = BROWN COATING ON WOOD        | Refer | BKKH19007791S1 |
| (5) = LIGHT ORANGE COATING ON WOOD | Refer | BKKH19009836   |

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## TEST REPORT

The report shall not be reproduced without written approval from Intertek

The results relate only to the item tested.

Number: BKKH19011144

Test conducted:

### Phthalate content test<sup>▲</sup>

By solvent extraction and Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

|                                   | <u>Result</u><br><u>(%, w/w)</u> | <u>LOD</u><br><u>(%, w/w)</u> | <u>LOQ</u><br><u>(%, w/w)</u> | <u>Limit</u><br><u>(%, w/w)</u> |
|-----------------------------------|----------------------------------|-------------------------------|-------------------------------|---------------------------------|
| (6)                               |                                  |                               |                               |                                 |
| Dibutyl Phthalate (DBP)           | ND                               | 0.0015                        | 0.0030                        | 0.1                             |
| Di(2-ethylhexyl) phthalate (DEHP) | ND                               | 0.0015                        | 0.0030                        | 0.1                             |
| Benzyl butyl Phthalate (BBP)      | ND                               | 0.0015                        | 0.0030                        | 0.1                             |
| Di-iso-nonyl Phthalate (DINP)     | ND                               | 0.0015                        | 0.0090                        | 0.1                             |
| Di-octyl Phthalate (DNOP)         | ND                               | 0.0015                        | 0.0030                        | 0.1                             |
| Di-iso-decyl Phthalate (DIDP)     | ND                               | 0.0015                        | 0.0090                        | 0.1                             |
| Di-n-hexyl Phthalate (DnHP)       | ND                               | 0.0015                        | 0.0030                        | 0.1                             |

Remark : % w/w = Percentage weight by weight

LOD = Limit of Detection

LOQ = Limit of Quantitation

ND = Not detected (Less than LOD)

<sup>▲</sup> = Tested items are not included in the TISI Accreditation

Note : The above limit was quoted according to the California Proposition 65

Tested components:

(6) = BLUE COATING ON WOOD (No.4)

Refer BKKH19008028S1

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## TEST REPORT

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The results relate only to the item tested.

Number: BKKH19011144

Test conducted:

### 9 Total Lead (Pb) Content▲

As per Illinois Lead poisoning prevention act 410 ILCS 45 section 6 (public act 095-1019), acid digestion method was used and total Lead content was determined by Inductively Couple Plasma Optical Emission Spectrometry.

#### I Surface coating material

| <u>Tested component</u> | <u>Result</u><br><u>mg/kg</u> | <u>LOD</u><br><u>mg/kg</u> | <u>LOQ</u><br><u>mg/kg</u> | <u>Limit</u><br><u>mg/kg</u> |
|-------------------------|-------------------------------|----------------------------|----------------------------|------------------------------|
| (1)                     | ND                            | 2                          | 13                         | 90                           |
| (2)                     | ND                            | 2                          | 13                         | 90                           |
| (3)                     | ND                            | 2                          | 13                         | 90                           |
| (4)                     | <13                           | 2                          | 13                         | 90                           |
| (5)                     | ND                            | 2                          | 13                         | 90                           |

Remark: < = Less than

mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million

LOD = Limit of Detection

LOQ = Limit of Quantitation

ND = Not detected (Less than LOD)

▲ = Tested items are not included in the TISI Accreditation

Requirement:

According to Illinois Lead poisoning prevention act 410 ILCS 45 section 6 (public act 095-019), appropriate warning statement is required when the Lead content of the submitted sample is more than 40 ppm but less than 90 ppm for surface coatings and less than 100 ppm for substrates by total weight or a lower standard for Lead content as may be established by federal or state law or regulation.

Tested components:

|                                    |       |                |
|------------------------------------|-------|----------------|
| (1) = WHITE COATING ON WOOD        | Refer | BKKH19007793S1 |
| (2) = LACQUER COATING ON WOOD      | Refer | BKKH19007792S1 |
| (3) = BROWN COATING ON WOOD        | Refer | BKKH19007791S1 |
| (4) = LIGHT ORANGE COATING ON WOOD | Refer | BKKH19009836   |
| (5) = BLUE COATING ON WOOD (No.4)  | Refer | BKKH19008028S1 |

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## TEST REPORT

The report shall not be reproduced without written approval from Intertek

The results relate only to the item tested.

Number: BKKH19011144

Test conducted:

II Non-surface coating material (substrate)

| <u>Tested component</u> | <u>Result</u> | <u>LOD</u>   | <u>LOQ</u>   | <u>Limit</u> |
|-------------------------|---------------|--------------|--------------|--------------|
|                         | <u>mg/kg</u>  | <u>mg/kg</u> | <u>mg/kg</u> | <u>mg/kg</u> |
| (6)                     | ND            | 1            | 13           | 100          |

Remark: < = Less than  
mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million  
LOD = Limit of Detection  
LOQ = Limit of Quantitation  
ND = Not detected (Less than LOD)

Requirement: According to Illinois Lead poisoning prevention act 410 ILCS 45 section 6 (public act 095-019), appropriate warning statement is required when the Lead content of the submitted sample is more than 40 ppm but less than 90 ppm for surface coatings and less than 100 ppm for substrates by total weight or a lower standard for Lead content as may be established by federal or state law or regulation.

Tested components:

(6) = WHITE ELASTIC

Refer BKKH19008026S1

Note: LOD and LOQ value in this test report were effective since October, 2014

\*\*\*\*\*END\*\*\*\*\*/KS/ST

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