

**TEST REPORT**

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The results relate only to the item tested.



Number: BKKH18004657

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

Date: Apr 25, 2018

**Sample description:**

Quantity of sample: One (1) set  
Sample description: Wooden toy  
Date sample received: April 12, 2018  
Date information received: April 20, 2018

**Client Information:**

One (1) set of submitted sample said to be SQUARE CLUTCHING TOY

Item Name: SQUARE CLUTCHING TOY  
Item Number: 5245



BKKH18004657

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**Test conducted:**

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

\*\*\*\*\*

To be continued

Authorized by :  
For Intertek Testing Services (Thailand) Ltd.,  
Hardlines Laboratory

*Ladtaka W.*  
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 clause 4.5  
Sound producing toys

Pass

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

Pass

U.S. ASTM F963-16 and 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

U.S. Consumer product safety improvement  
Act 2008(H.R. 4040) Title I, Section 108  
Requirement on 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 F963-16: Heavy metal</u>		
BROWN COATING ON WOOD	BKKH17008463	Jul 14, 2017
LACQUER COATING ON WOOD	BKKH17008950	Jul 26, 2017
ORANGE COATING ON WOOD (8950)	BKKH17008950	Jul 26, 2017
BLUE COATING ON WOOD	BKKH17008950	Jul 26, 2017
DARK BLUE COATING ON WOOD	BKKH17008950	Jul 26, 2017
PURPLE COATING ON WOOD	BKKH17014798	Dec 06, 2017
YELLOW COATING ON WOOD	BKKH17014798	Dec 06, 2017
LIGHT GREEN COATING ON WOOD	BKKH17014798	Dec 06, 2017
DARK PINK COATING ON WOOD	BKKH17015017	Dec 12, 2017
ORANGE COATING ON WOOD	BKKH17015570	Dec 25, 2017
CREAM ELASTIC	BKKH17003195	Mar 13, 2017
<u>Lead in surface coating</u>		
BROWN COATING ON WOOD	BKKH17008463	Jul 14, 2017
LACQUER COATING ON WOOD	BKKH17008950	Jul 26, 2017
ORANGE COATING ON WOOD (8950)	BKKH17008950	Jul 26, 2017
BLUE COATING ON WOOD	BKKH17008950	Jul 26, 2017
DARK BLUE COATING ON WOOD	BKKH17008950	Jul 26, 2017
PURPLE COATING ON WOOD	BKKH17014798	Dec 06, 2017
YELLOW COATING ON WOOD	BKKH17014798	Dec 06, 2017
LIGHT GREEN COATING ON WOOD	BKKH17014798	Dec 06, 2017
DARK PINK COATING ON WOOD	BKKH17015017	Dec 12, 2017
ORANGE COATING ON WOOD	BKKH17015570	Dec 25, 2017
<u>Lead in substrate</u>		
CREAM ELASTIC	BKKH17003195	Mar 13, 2017
<u>Phthalate content</u>		
CREAM ELASTIC	BKKH17003195	Mar 13, 2017
BROWN COATING ON WOOD	BKKH17008463	Jul 14, 2017
LACQUER COATING ON WOOD	BKKH17008950	Jul 26, 2017
ORANGE COATING ON WOOD (8950)	BKKH17008950	Jul 26, 2017
BLUE COATING ON WOOD	BKKH17008950	Jul 26, 2017
DARK BLUE COATING ON WOOD	BKKH17008950	Jul 26, 2017
PURPLE COATING ON WOOD	BKKH17014798	Dec 06, 2017
YELLOW COATING ON WOOD	BKKH17014798	Dec 06, 2017
LIGHT GREEN COATING ON WOOD	BKKH17014798	Dec 06, 2017
DARK PINK COATING ON WOOD	BKKH17015017	Dec 12, 2017
ORANGE COATING ON WOOD	BKKH17015570	Dec 25, 2017

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Test conducted:

1 Physical And Mechanical Tests <sup>▲</sup>

Test Standard : ASTM Standard Consumer Safety Specification for Toy Safety F963-17.  
Age group for testing : For age over 6 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	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	P
4.9	Accessible points	NA
4.10	Wires or rods	NA
4.11	Nails and fasteners	NA
4.12	Plastic film	NA
4.13	Folding mechanisms and hinges	NA
4.14	Cords, straps and elastics	P
4.15	Stability and over-load requirements	NA
4.16	Confined spaces	NA
4.17	Wheels, tires and axles	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.19	Simulated protective devices	NA
4.20	Pacifiers	NA
4.21	Projectile toys	NA
4.22	Teethers and teething toys	NA



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Test conducted:

Clause	Testing items	Assessment
4.23	Rattles	P
4.24	Squeeze toys	NA
4.25	Battery-operated toys	NA
4.26	Toys intended to be attached to a crib or playpen	NA
4.27	Stuffed and beanbag-type toys	NA
4.28	Stroller and carriage toys	NA
4.29	Art materials	NA
4.30	Toy gun marking	NA
4.31	Balloons	NA
4.32	Certain toys with nearly spherical ends	NA
4.33	Marbles	NA
4.34	Balls	P
4.35	Pompoms	NA
4.36	Hemispheric-shaped objects	NA
4.37	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	P
5	Labelling requirement	P
6	Instructional literature	
7	Producer's markings - name of producer (toy and package) - address (package)	Yes Yes

Remark : P = Pass NA = Not applicable

▲ = 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 : April 12, 2018 to April 19, 2018

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Number: BKKH18004657

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>Equivalent sound pressure level (<math>L_{Aeq}</math>)</u>	<u>Limit (db)</u>
--	--	65/85
<u>Tested component</u>	<u>Peak sound pressure level (<math>L_{Cpeak}</math>)</u>	<u>Limit (db)</u>
Square Clutching Toy	100.6	115

Testing period : April 12, 2018 to April 19, 2018

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Number: BKKH18004657

Test conducted:

2 Flammability Test<sup>^</sup>

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

Results : Did not ignite

Remark : <sup>^</sup> = Tested items are not included in the TISI Accreditation

Testing period : April 12, 2018 to April 19, 2018

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Number: BKKH18004657

Test conducted:

**3 Heavy Elements Analysis**

As per clause 4.3.5.1(2) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-16, acid extraction method was used and heavy elements migration content were determined by ICP-OES analysis.

			<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)	(2)	(3)	(4)	(5)			
Sol. Barium (Ba)	264	ND	<5	ND	ND	1	5	1000
Sol. Lead (Pb)	ND	ND	<5	<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                                   LOQ = Limit of Quantitation  
ND = Not detected (Less than LOD)                                   < = Less than

**Tested components:**

- |       |                               |       |              |
|-------|-------------------------------|-------|--------------|
| (1) = | BROWN COATING ON WOOD         | Refer | BKKH17008463 |
| (2) = | LACQUER COATING ON WOOD       | Refer | BKKH17008950 |
| (3) = | ORANGE COATING ON WOOD (8950) | Refer | BKKH17008950 |
| (4) = | BLUE COATING ON WOOD          | Refer | BKKH17008950 |
| (5) = | DARK BLUE COATING ON WOOD     | Refer | BKKH17008950 |

Note: The results of soluble toxic elements were adjusted by subtracting the analytical correction factor.  
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Number: BKKH18004657

Test conducted:

Heavy Elements Analysis

As per clause 4.3.5.1(2) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-16, acid extraction method was used and heavy elements migration content were determined by ICP-OES analysis.

	(6)	(7)	<u>Result</u> <u>mg/kg</u>	(8)	(9)	(10)	<u>LOD</u> <u>mg/kg</u>	<u>LOQ</u> <u>mg/kg</u>	<u>Limit mg/kg</u>
Sol. Barium (Ba)	ND	251	283	ND	ND	ND	1	5	1000
Sol. Lead (Pb)	ND	ND	ND	ND	ND	ND	1	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	ND	ND	1	5	75
Sol. Antimony (Sb)	ND	ND	ND	ND	ND	ND	2	5	60
Sol. Selenium (Se)	ND	ND	ND	ND	ND	ND	1	5	500
Sol. Chromium (Cr)	ND	ND	ND	ND	ND	ND	2	5	60
Sol. Mercury (Hg)	ND	ND	ND	ND	ND	ND	1	5	60
Sol. Arsenic (As)	ND	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 LOQ = Limit of Quantitation  
ND = Not detected (Less than LOD) < = Less than

Tested components:

(6) =	PURPLE COATING ON WOOD	Refer	BKKH17014798
(7) =	YELLOW COATING ON WOOD	Refer	BKKH17014798
(8) =	LIGHT GREEN COATING ON WOOD	Refer	BKKH17014798
(9) =	DARK PINK COATING ON WOOD	Refer	BKKH17015017
(10) =	ORANGE COATING ON WOOD	Refer	BKKH17015570

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

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Number: BKKH18004657

Test conducted:

Heavy Elements Analysis

As per clause 4.3.5.2(2)(b) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-16, acid extraction method was used and heavy elements migration content were determined by ICP-OES analysis.

	<u>Result</u> <u>mg/kg</u>	<u>LOD</u> <u>mg/kg</u>	<u>LOQ</u> <u>mg/kg</u>	<u>Limit mg/kg</u>
(11)				
Sol. Barium (Ba)	52	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:  
(11) = CREAM ELASTIC      Refer BKKH17003195

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 F963-11 and F963-16, 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> <u>mg/kg</u>	<u>LOD</u> <u>(mg/kg)</u>	<u>LOQ</u> <u>(mg/kg)</u>	<u>Limit</u> <u>(mg/kg)</u>
(1)	ND	2	13	90
(2)	ND	2	13	90
(3)	ND	2	13	90
(4)	ND	2	13	90
(5)	ND	2	13	90
(6)	ND	2	13	90
(7)	ND	2	13	90
(8)	ND	2	13	90
(9)	ND	2	13	90
(10)	<13	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) =	BROWN COATING ON WOOD	Refer	BKKH17008463
(2) =	LACQUER COATING ON WOOD	Refer	BKKH17008950
(3) =	ORANGE COATING ON WOOD (8950)	Refer	BKKH17008950
(4) =	BLUE COATING ON WOOD	Refer	BKKH17008950
(5) =	DARK BLUE COATING ON WOOD	Refer	BKKH17008950
(6) =	PURPLE COATING ON WOOD	Refer	BKKH17014798
(7) =	YELLOW COATING ON WOOD	Refer	BKKH17014798
(8) =	LIGHT GREEN COATING ON WOOD	Refer	BKKH17014798
(9) =	DARK PINK COATING ON WOOD	Refer	BKKH17015017
(10) =	ORANGE COATING ON WOOD	Refer	BKKH17015570

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Number: BKKH18004657

Test conducted:

4 Total Lead (Pb) content<sup>▲</sup>

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.

Tested component	Result %	LOD %	LOQ %	Limit %
(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)	ND	0.0002	0.0013	0.0090
(5)	ND	0.0002	0.0013	0.0090
(6)	ND	0.0002	0.0013	0.0090
(7)	ND	0.0002	0.0013	0.0090
(8)	ND	0.0002	0.0013	0.0090
(9)	ND	0.0002	0.0013	0.0090
(10)	<0.0013	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) =	BROWN COATING ON WOOD	Refer	BKKH17008463
(2) =	LACQUER COATING ON WOOD	Refer	BKKH17008950
(3) =	ORANGE COATING ON WOOD (8950)	Refer	BKKH17008950
(4) =	BLUE COATING ON WOOD	Refer	BKKH17008950
(5) =	DARK BLUE COATING ON WOOD	Refer	BKKH17008950
(6) =	PURPLE COATING ON WOOD	Refer	BKKH17014798
(7) =	YELLOW COATING ON WOOD	Refer	BKKH17014798
(8) =	LIGHT GREEN COATING ON WOOD	Refer	BKKH17014798
(9) =	DARK PINK COATING ON WOOD	Refer	BKKH17015017
(10) =	ORANGE COATING ON WOOD	Refer	BKKH17015570

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Number: BKKH18004657

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> <u>mg/kg</u>	<u>LOD</u> <u>mg/kg</u>	<u>LOQ</u> <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)	ND	2	13	90
(5)	ND	2	13	90
(6)	ND	2	13	90
(7)	ND	2	13	90
(8)	ND	2	13	90
(9)	ND	2	13	90
(10)	<13	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) =	BROWN COATING ON WOOD	Refer	BKKH17008463
(2) =	LACQUER COATING ON WOOD	Refer	BKKH17008950
(3) =	ORANGE COATING ON WOOD (8950)	Refer	BKKH17008950
(4) =	BLUE COATING ON WOOD	Refer	BKKH17008950
(5) =	DARK BLUE COATING ON WOOD	Refer	BKKH17008950
(6) =	PURPLE COATING ON WOOD	Refer	BKKH17014798
(7) =	YELLOW COATING ON WOOD	Refer	BKKH17014798
(8) =	LIGHT GREEN COATING ON WOOD	Refer	BKKH17014798
(9) =	DARK PINK COATING ON WOOD	Refer	BKKH17015017
(10) =	ORANGE COATING ON WOOD	Refer	BKKH17015570

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Number: BKKH18004657

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>					<u>LOD</u>	<u>LOQ</u>	<u>Limit</u>	<u>NPR</u>
	<u>(%, w/w)</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	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	0.1	--
Di-iso-decyl Phthalate (DIDP)	ND	ND	ND	ND	ND	0.0015	0.0090	0.1	--
Di-isobutyl phthalate (DIBP) <sup>▲</sup>	ND	ND	ND	ND	ND	0.0015	0.0090	--	0.1
Di-n-pentyl phthalate (DPENP) <sup>▲</sup>	ND	ND	ND	ND	ND	0.0015	0.0090	--	0.1
Di-n-hexyl phthalate (DHEXP) <sup>▲</sup>	ND	ND	ND	ND	ND	0.0015	0.0090	--	0.1
Di-cyclohexyl phthalate (DCHP) <sup>▲</sup>	ND	ND	ND	ND	ND	0.0015	0.0090	--	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 Consumer Product Safety Improvement Act 2008 for prohibition on sale of certain products containing specified phthalates. The Phthalate no.7-11 are not included in US Consumer Product Safety Improvement Act 2008 and 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) =	CREAM ELASTIC	Refer	BKKH17003195
(2) =	BROWN COATING ON WOOD	Refer	BKKH17008463
(3) =	LACQUER COATING ON WOOD	Refer	BKKH17008950
(4) =	ORANGE COATING ON WOOD (8950)	Refer	BKKH17008950
(5) =	BLUE COATING ON WOOD	Refer	BKKH17008950

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Number: BKKH18004657

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>					<u>LOD</u>	<u>LOQ</u>	<u>Limit</u>	<u>NPR</u>
	<u>(%, w/w)</u>					<u>(%, w/w)</u>	<u>(%, w/w)</u>	<u>(%, w/w)</u>	<u>(%, w/w)</u>
	(6)	(7)	(8)	(9)	(10)				
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	0.0049	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	0.1	--
Di-iso-decyl Phthalate (DIDP)	ND	ND	ND	ND	ND	0.0015	0.0090	0.1	--
Di-isobutyl phthalate (DIBP) <sup>▲</sup>	ND	ND	ND	ND	ND	0.0015	0.0090	--	0.1
Di-n-pentyl phthalate (DPENP) <sup>▲</sup>	ND	ND	ND	ND	ND	0.0015	0.0090	--	0.1
Di-n-hexyl phthalate (DHEXP) <sup>▲</sup>	ND	ND	ND	ND	ND	0.0015	0.0090	--	0.1
Di-cyclohexyl phthalate (DCHP) <sup>▲</sup>	ND	ND	ND	ND	ND	0.0015	0.0090	--	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 Consumer Product Safety Improvement Act 2008 for prohibition on sale of certain products containing specified phthalates.  
The Phthalate no.7-11 are not included in US Consumer Product Safety Improvement Act 2008 and 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) =	DARK BLUE COATING ON WOOD	Refer	BKKH17008950
(7) =	PURPLE COATING ON WOOD	Refer	BKKH17014798
(8) =	YELLOW COATING ON WOOD	Refer	BKKH17014798
(9) =	LIGHT GREEN COATING ON WOOD	Refer	BKKH17014798
(10) =	DARK PINK COATING ON WOOD	Refer	BKKH17015017

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**TEST REPORT**

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Number: BKKH18004657

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> <u>(%, w/w)</u>	<u>LOD</u> <u>(%, w/w)</u>	<u>LOQ</u> <u>(%, w/w)</u>	<u>Limit</u> <u>(%, w/w)</u>	<u>NPR</u> <u>(%, w/w)</u>
(11)					
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	0.1	--
Di-iso-decyl Phthalate (DIDP)	ND	0.0015	0.0090	0.1	--
Di-isobutyl phthalate (DIBP) <sup>▲</sup>	ND	0.0015	0.0090	--	0.1
Di-n-pentyl phthalate (DPENP) <sup>▲</sup>	ND	0.0015	0.0090	--	0.1
Di-n-hexyl phthalate (DHEXP) <sup>▲</sup>	ND	0.0015	0.0090	--	0.1
Di-cyclohexyl phthalate (DCHP) <sup>▲</sup>	ND	0.0015	0.0090	--	0.1
Diisooctyl phthalate (DIOP) <sup>▲</sup>	ND	0.0015	0.0090	--	--

Remark : The above limit was quoted according to US Consumer Product Safety Improvement Act 2008 for prohibition on sale of certain products containing specified phthalates. The Phthalate no.7-11 are not included in US Consumer Product Safety Improvement Act 2008 and 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:

(11) = ORANGE COATING ON WOOD Refer BKKH17015570

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**TEST REPORT**

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Number: BKKH18004657

Test conducted:

8 Phthalate content test<sup>▲</sup>

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) =	CREAM ELASTIC	Refer	BKKH17003195
(2) =	BROWN COATING ON WOOD	Refer	BKKH17008463
(3) =	LACQUER COATING ON WOOD	Refer	BKKH17008950
(4) =	ORANGE COATING ON WOOD (8950)	Refer	BKKH17008950
(5) =	BLUE COATING ON WOOD	Refer	BKKH17008950

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Number: BKKH18004657

Test conducted:

Phthalate content test<sup>▲</sup>

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>
	(6)	(7)	(8)	(9)	(10)			
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	ND	0.0015	0.0030	0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	0.0049	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:

(6) =	DARK BLUE COATING ON WOOD	Refer	BKKH17008950
(7) =	PURPLE COATING ON WOOD	Refer	BKKH17014798
(8) =	YELLOW COATING ON WOOD	Refer	BKKH17014798
(9) =	LIGHT GREEN COATING ON WOOD	Refer	BKKH17014798
(10) =	DARK PINK COATING ON WOOD	Refer	BKKH17015017

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Number: BKKH18004657

Test conducted:

Phthalate content test<sup>▲</sup>

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

	<u>Result</u> <u>(%, w/w)</u>	<u>LOD</u> <u>(%, w/w)</u>	<u>LOQ</u> <u>(%, w/w)</u>	<u>Limit</u> <u>(%, w/w)</u>
(11)				
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)  
 ▲ = Tested items are not included in the TISI Accreditation

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

Tested components:

(11) = ORANGE COATING ON WOOD Refer BKKH17015570

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**TEST REPORT**

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Number: BKKH18004657

Test conducted:

9 Total Lead (Pb) Content<sup>▲</sup>

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> mg/kg	<u>LOD</u> mg/kg	<u>LOQ</u> mg/kg	<u>Limit</u> mg/kg
(1)	ND	2	13	90
(2)	ND	2	13	90
(3)	ND	2	13	90
(4)	ND	2	13	90
(5)	ND	2	13	90
(6)	ND	2	13	90
(7)	ND	2	13	90
(8)	ND	2	13	90
(9)	ND	2	13	90
(10)	<13	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.

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# TEST REPORT

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Number: BKKH18004657

Test conducted:

Tested components:

(1) =	BROWN COATING ON WOOD	Refer	BKKH17008463
(2) =	LACQUER COATING ON WOOD	Refer	BKKH17008950
(3) =	ORANGE COATING ON WOOD (8950)	Refer	BKKH17008950
(4) =	BLUE COATING ON WOOD	Refer	BKKH17008950
(5) =	DARK BLUE COATING ON WOOD	Refer	BKKH17008950
(6) =	PURPLE COATING ON WOOD	Refer	BKKH17014798
(7) =	YELLOW COATING ON WOOD	Refer	BKKH17014798
(8) =	LIGHT GREEN COATING ON WOOD	Refer	BKKH17014798
(9) =	DARK PINK COATING ON WOOD	Refer	BKKH17015017
(10) =	ORANGE COATING ON WOOD	Refer	BKKH17015570

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**TEST REPORT**

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Number: BKKH18004657

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>
(11)	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:

(11) = CREAM ELASTIC Refer BKKH17003195

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

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

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