

TEST REPORT

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The results relate only to the item tested.

Number: BKKH18009126

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

Date: Aug 23, 2018

Sample description:

Quantity of sample:	One (1) set
Sample description:	Wooden toy
Date sample received:	July 10, 2018
Date information received:	August 20, 2018
Date sample resubmitted:	July 31, 2018

Client Information:

One (1) set of submitted sample said to be VET SET

Item Name: VET SET
Item Number: 3490



BKKH18009126

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 Wongwiboonporn
Laboratory Manager
Hardlines Department



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Conclusion:

<u>Tested samples</u>	<u>Standard</u>	<u>Result</u>
Submitted sample	U.S. ASTM F963-16 for Physical and mechanical tests	Pass
	U.S. ASTM F963-16 for Flammability test of materials other than textile materials	Pass
	U.S. ASTM F963-16 for Heavy elements Test	Pass
	<u>Standard - U.S. CFR title 16</u> (CPSC regulations) Part 1303 total Lead content	Pass
	16 CFR Part 1610 Flammability test	Pass
	<u>Standard</u> 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>		
GRAY COATING ON WOOD	BKKH17014798	Dec 06, 2017
LIGHT GRAY COATING ON WOOD	BKKH17014794	Dec 06, 2017
WHITE COATING ON WOOD	BKKH18008771	Jul 12, 2018
BLUE COATING ON WOOD (320C)	BKKH18008773	Jul 12, 2018
RED COATING ON WOOD	BKKH18008770	Jul 12, 2018
GREEN FABRIC	BKKH17015182	Dec 15, 2017
WHITE ELASTIC	BKKH18005325	May 09, 2018
LABEL FABRIC	BKKH18008759	Jul 11, 2018
CREAM FABRIC	BKKH18008759	Jul 11, 2018
BROWN FABRIC	BKKH18008759	Jul 11, 2018
WHITE FABRIC-BLUE PRINT	BKKH18008759	Jul 11, 2018
CLOTH TAPE	BKKH18008759	Jul 11, 2018
WHITE PLASTIC (VELCRO)	BKKH18008777	Jul 11, 2018
COTTON CORD	BKKH18010282	Aug 06, 2018
ART PAPER (3490)	BKKH18010612	Aug 16, 2018
<u>Lead in surface coating</u>		
GRAY COATING ON WOOD	BKKH17014798	Dec 06, 2017
LIGHT GRAY COATING ON WOOD	BKKH17014794	Dec 06, 2017
WHITE COATING ON WOOD	BKKH18008771	Jul 12, 2018
BLUE COATING ON WOOD (320C)	BKKH18008773	Jul 12, 2018
RED COATING ON WOOD	BKKH18008770	Jul 12, 2018
<u>Lead in substrate</u>		
GREEN FABRIC	BKKH17015182	Dec 15, 2017
WHITE ELASTIC	BKKH18005325	May 09, 2018
LABEL FABRIC	BKKH18008759	Jul 11, 2018
CREAM FABRIC	BKKH18008759	Jul 11, 2018
BROWN FABRIC	BKKH18008759	Jul 11, 2018
WHITE FABRIC-BLUE PRINT	BKKH18008759	Jul 11, 2018
CLOTH TAPE	BKKH18008759	Jul 11, 2018
WHITE PLASTIC (VELCRO)	BKKH18008777	Jul 11, 2018
COTTON CORD	BKKH18010282	Aug 06, 2018
ART PAPER (3490)	BKKH18010612	Aug 16, 2018



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<u>Components</u>	<u>Report No.</u>	<u>Date</u>
<u>Phthalate content</u>		
GRAY COATING ON WOOD	BKKH17014798	Dec 06, 2017
LIGHT GRAY COATING ON WOOD	BKKH17014794	Dec 06, 2017
WHITE ELASTIC	BKKH18005325	May 09, 2018
WHITE COATING ON WOOD	BKKH18008771	Jul 12, 2018
WHITE PLASTIC (VELCRO)	BKKH18008778	Jul 10, 2018
BLUE COATING ON WOOD (320C)	BKKH18008773	Jul 12, 2018
RED COATING ON WOOD	BKKH18008770	Jul 12, 2018



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Number: BKKH18009126

Test conducted:

1 Physical And Mechanical Tests

Test Standard : ASTM Standard Consumer Safety Specification for Toy Safety F963-16.

Age group for testing : For age over 3 years.

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 : -

Test	FHSA	Parameter
Drop test	Section 1500.53(b)	4 x 3.0 ft
Torque test	Section 1500.53(e)	4 in-lbf
Tension test	Section 1500.53(f)	15 lbf
Compression test	Section 1500.53(g)	30 lbf

Clause	Testing items	Assessment
4.1	Material quality	P
4.5	Sound-producing toys	NA
4.6.1	Toys intended for children under 36 months (small objects)	NA
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	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	NA
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	NA
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	NA
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	NA
5	Labelling requirement	P
6	Instructional literature	P
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 : July 10, 2018 to July 13, 2018

2 Flammability Test

Test Standard : Clause 4.2 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-16.

Results : Did not ignite

Testing period : July 10, 2018 to July 13, 2018



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Number: BKKH18009126

Test conducted:

3 Flammability Test (US CPSC 16 CFR Part 1610)[▲]

Plain surface Raised surface

Burn direction:	<input checked="" type="checkbox"/> length <input type="checkbox"/> width	Burn direction:	<input checked="" type="checkbox"/> length <input type="checkbox"/> width	
Prelim Raised surface:		Prelim Raised surface:		
length : DNI		length : DNI		
width : DNI		width : DNI		
<u>Original (seconds)</u>		<u>After one drycleaning/laundry (seconds)</u>		<u>Requirement</u>
1	DNI	1	DNI	Class 1
2	DNI	2	DNI	
3	DNI	3	DNI	
4	DNI	4	DNI	
5	DNI	5	DNI	

Classification: class 1, Normal flammability
 class 2, Intermediate flammability, raised surface
 class 3, Rapid and intense burning

Explanation of flammability results:

- *IBE Ignited but extinguished, the asterisk (*) denotes a burn that goes under the cord without breaking the cord.
- DNI Did not ignite.
- IBE Ignited but extinguished.
- 0.0 BB Actual time of burn from ignition until the flame severs the cord directly above the specimen (releasing the weight which in turn stops the timer) will give a numerical time in 0.0 seconds
- *0.0SFBB Time in seconds, surface flash base burn possibly starting at the point of impingement.
- Poi The asterisk is accompanied by the following: "unable to make absolute determination as to source of base burns." burning. It does not qualify as a base burn under the current interpretation of cfr 1610.
- 0.0SF Only Time in seconds, surface flash only. No damage to the base fabric.
- 0.0 SFBB Time in seconds, surface flash base burn. Base starts burning at points other than the point of impingement.
- SF pw Surface flash, part way. No time shown because the surface flash did not reach the cord.
- SF uc Surface flash under the cord, but does not break the cord.
- SF poi Surface flash, at point of impingement only (equivalent to "did not ignite" for plain surface).
- # Plain surface fabric with an average burn time less than 4.0 seconds as class 3 flammability verse the 16 CFR 1610 standard of 3.5 seconds.

▲ = Tested items are not included in the TISI Accreditation

Test component: Cream fabric

Testing period : July 17, 2018 to July 20, 2018



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Number: BKKH18009126

Test conducted:

Flammability Test (US CPSC 16 CFR Part 1610) [▲]

Plain surface Raised surface

Burn direction:	<input checked="" type="checkbox"/> length <input type="checkbox"/> width	Burn direction:	<input checked="" type="checkbox"/> length <input type="checkbox"/> width	
Prelim Raised surface:		Prelim Raised surface:		
length : DNI		length : DNI		
width : DNI		width : DNI		
<u>Original (seconds)</u>		<u>After one drycleaning/laundry (seconds)</u>		<u>Requirement</u>
1	DNI	1	DNI	Class 1
2	DNI	2	DNI	
3	DNI	3	DNI	
4	DNI	4	DNI	
5	DNI	5	DNI	

Classification: class 1, Normal flammability
 class 2, Intermediate flammability, raised surface
 class 3, Rapid and intense burning

Explanation of flammability results:

- *IBE Ignited but extinguished, the asterisk (*) denotes a burn that goes under the cord without breaking the cord.
- DNI Did not ignite.
- IBE Ignited but extinguished.
- 0.0 BB Actual time of burn from ignition until the flame severs the cord directly above the specimen (releasing the weight which in turn stops the timer) will give a numerical time in 0.0 seconds
- *0.0SFBB Time in seconds, surface flash base burn possibly starting at the point of impingement.
- Poi The asterisk is accompanied by the following: "unable to make absolute determination as to source of base burns." burning. It does not qualify as a base burn under the current interpretation of cfr 1610.
- 0.0SF Only Time in seconds, surface flash only. No damage to the base fabric.
- 0.0 SFBB Time in seconds, surface flash base burn. Base starts burning at points other than the point of impingement.
- SF pw Surface flash, part way. No time shown because the surface flash did not reach the cord.
- SF uc Surface flash under the cord, but does not break the cord.
- SF poi Surface flash, at point of impingement only (equivalent to "did not ignite" for plain surface).
- # Plain surface fabric with an average burn time less than 4.0 seconds as class 3 flammability verse the 16 CFR 1610 standard of 3.5 seconds.

[▲] = Tested items are not included in the TISI Accreditation

Test component: Green fabric

Testing period : July 17, 2018 to July 20, 2018



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Test conducted:

4 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.

	(1)	(2)	<u>Result</u> <u>mg/kg</u>	(4)	(5)	<u>LOD</u> <u>mg/kg</u>	<u>LOQ</u> <u>mg/kg</u>	<u>Limit mg/kg</u>
Sol. Barium (Ba)	103	10	10	<5	604	1	5	1000
Sol. Lead (Pb)	ND	ND	ND	ND	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) =	GRAY COATING ON WOOD	Refer	BKKH17014798
(2) =	LIGHT GRAY COATING ON WOOD	Refer	BKKH17014794
(3) =	WHITE COATING ON WOOD	Refer	BKKH18008771
(4) =	BLUE COATING ON WOOD (320C)	Refer	BKKH18008773
(5) =	RED COATING ON WOOD	Refer	BKKH18008770

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



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Number: BKKH18009126

Test conducted:

Heavy Elements Analysis

As per clause 4.3.5.2(2)(b) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-11 and F963-16, acid extraction method was used and heavy elements migration content were determined by ICP-OES analysis.

	(6)	(7)	Result mg/kg (8)	(9)	(10)	LOD mg/kg	LOQ mg/kg	Limit mg/kg
Sol. Barium (Ba)	ND	ND	ND	<5	ND	1	5	1000
Sol. Lead (Pb)	ND	ND	ND	ND	ND	1	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	ND	1	5	75
Sol. Antimony (Sb)	ND	ND	8	ND	<5	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:

(6) =	GREEN FABRIC	Refer	BKKH17015182
(7) =	WHITE ELASTIC	Refer	BKKH18005325
(8) =	LABEL FABRIC	Refer	BKKH18008759
(9) =	CREAM FABRIC	Refer	BKKH18008759
(10) =	BROWN FABRIC	Refer	BKKH18008759

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 F963-16, 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)	<13	2	13	90
(4)	ND	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
 ND = Not detected (Less than LOD)
 LOQ = Limit of Quantitation
 < = Less than

Tested components:

(1) =	GRAY COATING ON WOOD	Refer	BKKH17014798
(2) =	LIGHT GRAY COATING ON WOOD	Refer	BKKH17014794
(3) =	WHITE COATING ON WOOD	Refer	BKKH18008771
(4) =	BLUE COATING ON WOOD (320C)	Refer	BKKH18008773
(5) =	RED COATING ON WOOD	Refer	BKKH18008770



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Number: BKKH18009126

Test conducted:

6 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)	<0.0013	2	13	90
(4)	ND	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) = GRAY COATING ON WOOD Refer BKKH17014798
- (2) = LIGHT GRAY COATING ON WOOD Refer BKKH17014794
- (3) = WHITE COATING ON WOOD Refer BKKH18008771
- (4) = BLUE COATING ON WOOD (320C) Refer BKKH18008773
- (5) = RED COATING ON WOOD Refer BKKH18008770



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Number: BKKH18009126

Test conducted:

8 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) [▲]	ND	ND	ND	ND	ND	0.0015	0.0090	--	0.1
Di-n-pentyl phthalate (DPENP) [▲]	ND	ND	ND	ND	ND	0.0015	0.0090	--	0.1
Di-n-hexyl phthalate (DHEXP) [▲]	ND	ND	ND	ND	ND	0.0015	0.0090	--	0.1
Di-cyclohexyl phthalate (DCHP) [▲]	ND	ND	ND	ND	ND	0.0015	0.0090	--	0.1
Diisooctyl phthalate (DIOP) [▲]	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) =	GRAY COATING ON WOOD	Refer	BKKH17014798
(2) =	LIGHT GRAY COATING ON WOOD	Refer	BKKH17014794
(3) =	WHITE ELASTIC	Refer	BKKH18005325
(4) =	WHITE COATING ON WOOD	Refer	BKKH18008771
(5) =	WHITE PLASTIC (VELCRO)	Refer	BKKH18008778



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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> (%, w/w)	<u>LOD</u> (%, w/w)	<u>LOQ</u> (%, w/w)	<u>Limit</u> (%, w/w)	<u>NPR</u> (%, w/w)
	(6)	(7)				
Dibutyl Phthalate (DBP)	ND	ND	0.0015	0.0030	0.1	0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND	ND	0.0015	0.0030	0.1	0.1
Benzyl butyl Phthalate (BBP)	ND	ND	0.0015	0.0030	0.1	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND	0.0015	0.0090	0.1	0.1
Di-n-octyl Phthalate (DNOP)	ND	ND	0.0015	0.0030	0.1	--
Di-iso-decyl Phthalate (DIDP)	ND	ND	0.0015	0.0090	0.1	--
Di-isobutyl phthalate (DIBP) [▲]	ND	ND	0.0015	0.0090	--	0.1
Di-n-pentyl phthalate (DPENP) [▲]	ND	ND	0.0015	0.0090	--	0.1
Di-n-hexyl phthalate (DHEXP) [▲]	ND	ND	0.0015	0.0090	--	0.1
Di-cyclohexyl phthalate (DCHP) [▲]	ND	ND	0.0015	0.0090	--	0.1
Diisooctyl phthalate (DIOP) [▲]	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) =	BLUE COATING ON WOOD (320C)	Refer	BKKH18008773
(7) =	RED COATING ON WOOD	Refer	BKKH18008770



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Test conducted:

9 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>
	(1)	(2)	(3)	(4)	(5)	(%, w/w)	(%, w/w)	(%, w/w)
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
Dioctyl 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) =	GRAY COATING ON WOOD	Refer	BKKH17014798
(2) =	LIGHT GRAY COATING ON WOOD	Refer	BKKH17014794
(3) =	WHITE ELASTIC	Refer	BKKH18005325
(4) =	WHITE COATING ON WOOD	Refer	BKKH18008771
(5) =	WHITE PLASTIC (VELCRO)	Refer	BKKH18008778



TEST REPORT

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Number: BKKH18009126

Test conducted:

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>
	(6)	(7)			
Dibutyl Phthalate (DBP)	ND	ND	0.0015	0.0030	0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND	ND	0.0015	0.0030	0.1
Benzyl butyl Phthalate (BBP)	ND	ND	0.0015	0.0030	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND	0.0015	0.0090	0.1
Dioctyl Phthalate (DNOP)	ND	ND	0.0015	0.0030	0.1
Di-iso-decyl Phthalate (DIDP)	ND	ND	0.0015	0.0090	0.1
Di-n-hexyl Phthalate (DnHP)	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) =	BLUE COATING ON WOOD (320C)	Refer	BKKH18008773
(7) =	RED COATING ON WOOD	Refer	BKKH18008770



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Number: BKKH18009126

Test conducted:

10 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> <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)	<0.0013	2	13	90
(4)	ND	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) =	GRAY COATING ON WOOD	Refer	BKKH17014798
(2) =	LIGHT GRAY COATING ON WOOD	Refer	BKKH17014794
(3) =	WHITE COATING ON WOOD	Refer	BKKH18008771
(4) =	BLUE COATING ON WOOD (320C)	Refer	BKKH18008773
(5) =	RED COATING ON WOOD	Refer	BKKH18008770



TEST REPORT

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Number: BKKH18009126

Test conducted:

II Non-surface coating material (substrate)

<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>
(6)	ND	1	13	100
(7)	<13	1	13	100
(8)	ND	1	13	100
(9)	ND	1	13	100
(10)	ND	1	13	100
(11)	ND	1	13	100
(12)	ND	1	13	100
(13)	ND	1	13	100
(14)	ND	1	13	100
(15)	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.



TEST REPORT

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Number: BKKH18009126

Test conducted:

Tested components:

(6) =	GREEN FABRIC	Refer	BKKH17015182
(7) =	WHITE ELASTIC	Refer	BKKH18005325
(8) =	LABEL FABRIC	Refer	BKKH18008759
(9) =	CREAM FABRIC	Refer	BKKH18008759
(10) =	BROWN FABRIC	Refer	BKKH18008759
(11) =	WHITE FABRIC-BLUE PRINT	Refer	BKKH18008759
(12) =	CLOTH TAPE	Refer	BKKH18008759
(13) =	WHITE PLASTIC (VELCRO)	Refer	BKKH18008777
(14) =	COTTON CORD	Refer	BKKH18010282
(15) =	ART PAPER (3490)	Refer	BKKH18010612

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

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

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