

TEST REPORT

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The results relate only to the item tested.

Number: BKKH18016930

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

Date: Feb 14, 2019

Sample description:

Quantity of sample:	One (1) set
Sample description:	Wooden toy
Date sample received:	December 21, 2018
Date information received:	February 12, 2019

Client Information:

One (1) set of submitted sample said to be Pull Along Snake

Item Name: Pull Along Snake
Item Number: 5133



BKKH18016930

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 Wongwiboonporn

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
excluding labeling requirement of clause 5

Result

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

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 F963-16: Heavy metal</u>		
BLUE COATING ON WOOD	BKKH18008770	Jul 12, 2018
YELLOW COATING ON WOOD	BKKH18008771	Jul 12, 2018
LIGHT GREEN COATING ON WOOD	BKKH18012015S1	Oct 01, 2018
ORANGE COATING ON WOOD	BKKH18001632	Feb 12, 2018
BLUE COATING ON WOOD (320C)	BKKH18008773	Jul 12, 2018
WHITE COATING ON WOOD	BKKH18008771	Jul 12, 2018
ORANGE COATING ON WOOD	BKKH18010022	Aug 03, 2018
BROWN COATING ON WOOD	BKKH18008771	Jul 12, 2018
COTTON CORD	BKKH18011513	Aug 30, 2018
CREAM COTTON CORD	BKKH18008762	Jul 11, 2018
<u>ASTM F963-17: Heavy metal</u>		
GRAY RUBBER RING	BKKH19001237	Jan 30, 2019
BLACK COATING ON WOOD	BKKH18016831	Dec 25, 2018
<u>Lead in surface coating</u>		
BLUE COATING ON WOOD	BKKH18008770	Jul 12, 2018
YELLOW COATING ON WOOD	BKKH18008771	Jul 12, 2018
LIGHT GREEN COATING ON WOOD	BKKH18012015S1	Oct 01, 2018
ORANGE COATING ON WOOD	BKKH18001632	Feb 12, 2018
BLUE COATING ON WOOD (320C)	BKKH18008773	Jul 12, 2018
WHITE COATING ON WOOD	BKKH18008771	Jul 12, 2018
BLACK COATING ON WOOD	BKKH18016831	Dec 25, 2018
ORANGE COATING ON WOOD	BKKH18010022	Aug 03, 2018
BROWN COATING ON WOOD	BKKH18008771	Jul 12, 2018
<u>Lead in substrate</u>		
COTTON CORD	BKKH18011513	Aug 30, 2018
CREAM COTTON CORD	BKKH18008762	Jul 11, 2018
GRAY RUBBER RING	BKKH19001237	Jan 30, 2019
<u>Phthalate content</u>		
BLUE COATING ON WOOD	BKKH18008770	Jul 12, 2018
YELLOW COATING ON WOOD	BKKH18008771	Jul 12, 2018
LIGHT GREEN COATING ON WOOD	BKKH18012015S1	Oct 01, 2018
ORANGE COATING ON WOOD	BKKH18001632	Feb 12, 2018
BLUE COATING ON WOOD (320C)	BKKH18008773	Jul 12, 2018
GRAY RUBBER RING	BKKH19001237	Jan 30, 2019
WHITE COATING ON WOOD	BKKH18008771	Jul 12, 2018
BLACK COATING ON WOOD	BKKH18016831	Dec 25, 2018
ORANGE COATING ON WOOD	BKKH18010022	Aug 03, 2018
BROWN COATING ON WOOD	BKKH18008771	Jul 12, 2018



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Test conducted:

1 Physical And Mechanical Tests▲

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

Age group for testing : For age over 12 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 : -

Test	FHSA	Parameter
Drop test	Section 1500.51(b)	10x4.5 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

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)	P
4.6.2	Mouth-actuated toys	NA
4.6.3	Toys and games for 36 months to 72 months (small part warning)	NA
4.7	Accessible edges	P
4.8	Projections	P
4.9	Accessible points	P
4.10	Wires or rods	NA
4.11	Nails and fasteners	NA
4.12	Plastic film	NA
4.13	Folding mechanisms and hinges	NA
4.14	Cords, straps and elastics	P
4.15	Stability and over-load requirements	NA
4.16	Confined spaces	NA
4.17	Wheels, tires and axles	P
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	#
6	Instructional literature	NA
7	Producer's markings - name of producer (toy) - address (toy)	Yes No

Remark : P = Pass NA = Not applicable

▲ = Tested items are not included in the TISI Accreditation

= Only artwork of packaging was provided for review.

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.

The producer's name was found on the toy. However as specified in clause 7.1 of ASTM F963-17, the final product or its packaging must also be marked with the address.

Testing period : December 21, 2018 to December 25, 2018

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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

▲ = Tested items are not included in the TISI Accreditation

Testing period : December 21, 2018 to December 25, 2018



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Number: BKKH18016930

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>mg/kg</u>			<u>LOD</u> <u>mg/kg</u>	<u>LOQ</u> <u>mg/kg</u>	<u>Limit mg/kg</u>
	(1)	(2)	(3)	(4)	(5)			
Sol. Barium (Ba)	9	<5	ND	216	<5	1	5	1000
Sol. Lead (Pb)	<5	<5	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) = BLUE COATING ON WOOD	Refer	BKKH18008770
(2) = YELLOW COATING ON WOOD	Refer	BKKH18008771
(3) = LIGHT GREEN COATING ON WOOD	Refer	BKKH18012015S1
(4) = ORANGE COATING ON WOOD	Refer	BKKH18001632
(5) = BLUE COATING ON WOOD (320C)	Refer	BKKH18008773

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

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Number: BKKH18016930

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 and F963-17[▲], 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>
	(6)	(7)	(8)	(9)			
Sol. Barium (Ba)	10	<5	ND	572	1	5	1000
Sol. Lead (Pb)	ND	ND	ND	ND	1	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	1	5	75
Sol. Antimony (Sb)	ND	ND	ND	ND	2	5	60
Sol. Selenium (Se)	ND	ND	ND	ND	1	5	500
Sol. Chromium (Cr)	ND	ND	ND	ND	2	5	60
Sol. Mercury (Hg)	ND	ND	ND	ND	1	5	60
Sol. Arsenic (As)	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)
▲ = Tested items are not included in the TISI Accreditation
LOQ = Limit of Quantitation
< = Less than

Tested components:

(6) =	WHITE COATING ON WOOD	Refer	BKKH18008771
(7) =	BLACK COATING ON WOOD	Refer	BKKH18016831
(8) =	ORANGE COATING ON WOOD	Refer	BKKH18010022
(9) =	BROWN COATING ON WOOD	Refer	BKKH18008771

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

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Number: BKKH18016930

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 and F963-17[▲], acid extraction method was used and heavy elements migration content were determined by ICP-OES analysis.

	(10)	(11)	Result mg/kg (12)	LOD mg/kg	LOQ mg/kg	Limit mg/kg
Sol. Barium (Ba)	ND	ND	ND	1	5	1000
Sol. Lead (Pb)	ND	ND	ND	1	5	90
Sol. Cadmium (Cd)	ND	ND	ND	1	5	75
Sol. Antimony (Sb)	<5	ND	ND	2	5	60
Sol. Selenium (Se)	ND	ND	ND	1	5	500
Sol. Chromium (Cr)	ND	ND	ND	2	5	60
Sol. Mercury (Hg)	ND	ND	ND	1	5	60
Sol. Arsenic (As)	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 items are not included in the TISI Accreditation

Tested components:

(10) =	COTTON CORD	Refer	BKKH18011513
(11) =	CREAM COTTON CORD	Refer	BKKH18008762
(12) =	GRAY RUBBER RING	Refer	BKKH19001237

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 and 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

Tested Component	Result mg/kg	LOD (mg/kg)	LOQ (mg/kg)	Limit (mg/kg)
(1)	<13	2	13	90
(2)	<13	2	13	90
(3)	ND	2	13	90
(4)	ND	2	13	90
(5)	ND	2	13	90
(6)	<13	2	13	90
(7)	ND	2	13	90
(8)	ND	2	13	90
(9)	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 items are not included in the TISI Accreditation

Tested components:

(1) = BLUE COATING ON WOOD	Refer BKKH18008770
(2) = YELLOW COATING ON WOOD	Refer BKKH18008771
(3) = LIGHT GREEN COATING ON WOOD	Refer BKKH18012015S1
(4) = ORANGE COATING ON WOOD	Refer BKKH18001632
(5) = BLUE COATING ON WOOD (320C)	Refer BKKH18008773
(6) = WHITE COATING ON WOOD	Refer BKKH18008771
(7) = BLACK COATING ON WOOD	Refer BKKH18016831
(8) = ORANGE COATING ON WOOD	Refer BKKH18010022
(9) = BROWN COATING ON WOOD	Refer BKKH18008771

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Number: BKKH18016930

Test conducted:

Total Lead (Pb) Content

As per clause 4.3.5.2(2)(a) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-16 and 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> <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>
(10)	ND	1	13	100
(11)	ND	1	13	100
(12)	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)
 ▲ = Tested items are not included in the TISI Accreditation

Tested components:

(10) = COTTON CORD	Refer BKKH18011513
(11) = CREAM COTTON CORD	Refer BKKH18008762
(12) = GRAY RUBBER RING	Refer BKKH19001237

Number: BKKH18016930

Test conducted:

4 Total Lead (Pb) content[▲]

As per U.S. Code of Federal Regulations title 16 Part 1303. Acid digestion method was used and total Lead content was determined by Inductively Couple Plasma Optical Emission Spectrometry.²

<u>Tested component</u>	<u>Result %</u>	<u>LOD %</u>	<u>LOQ %</u>	<u>Limit %</u>
(1)	<0.0013	0.0002	0.0013	0.0090
(2)	<0.0013	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)	<0.0013	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

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) =	BLUE COATING ON WOOD	Refer	BKKH18008770
(2) =	YELLOW COATING ON WOOD	Refer	BKKH18008771
(3) =	LIGHT GREEN COATING ON WOOD	Refer	BKKH1801201551
(4) =	ORANGE COATING ON WOOD	Refer	BKKH18001632
(5) =	BLUE COATING ON WOOD (320C)	Refer	BKKH18008773
(6) =	WHITE COATING ON WOOD	Refer	BKKH18008771
(7) =	BLACK COATING ON WOOD	Refer	BKKH18016831
(8) =	ORANGE COATING ON WOOD	Refer	BKKH18010022
(9) =	BROWN COATING ON WOOD	Refer	BKKH18008771

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Number: BKKH18016930

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)	<13	2	13	90
(2)	<13	2	13	90
(3)	ND	2	13	90
(4)	ND	2	13	90
(5)	ND	2	13	90
(6)	<13	2	13	90
(7)	ND	2	13	90
(8)	ND	2	13	90
(9)	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) = BLUE COATING ON WOOD	Refer	BKKH18008770
(2) = YELLOW COATING ON WOOD	Refer	BKKH18008771
(3) = LIGHT GREEN COATING ON WOOD	Refer	BKKH18012015S1
(4) = ORANGE COATING ON WOOD	Refer	BKKH18001632
(5) = BLUE COATING ON WOOD (320C)	Refer	BKKH18008773
(6) = WHITE COATING ON WOOD	Refer	BKKH18008771
(7) = BLACK COATING ON WOOD	Refer	BKKH18016831
(8) = ORANGE COATING ON WOOD	Refer	BKKH18010022
(9) = BROWN COATING ON WOOD	Refer	BKKH18008771

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Number: BKKH18016930

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
(2)	ND	1	13	100
(3)	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)

Tested components:

(1) = COTTON CORD	Refer BKKH18011513
(2) = CREAM COTTON CORD	Refer BKKH18008762
(3) = GRAY RUBBER RING	Refer BKKH19001237

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Number: BKKH18016930

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> (%, w/w)					<u>LOD</u> (%, w/w)	<u>LOQ</u> (%, w/w)	<u>(16CFR1307)</u> Limit (%, w/w)	<u>NPR</u> (%, 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)▲	ND	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di-n-pentyl phthalate (DPENP)▲	ND	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di-n-hexyl phthalate (DHEXP)▲	ND	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di-cyclohexyl phthalate (DCHP)▲	ND	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Diisooctyl phthalate (DIOP)▲	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) = BLUE COATING ON WOOD	Refer	BKKH18008770
(2) = YELLOW COATING ON WOOD	Refer	BKKH18008771
(3) = LIGHT GREEN COATING ON WOOD	Refer	BKKH18012015S1
(4) = ORANGE COATING ON WOOD	Refer	BKKH18001632
(5) = BLUE COATING ON WOOD (320C)	Refer	BKKH18008773

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Number: BKKH18016930

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>(16CFR1307)</u> Limit (%, w/w)	<u>NPR</u> (%, w/w)
	(6)	(7)	(8)	(9)	(10)				
Dibutyl Phthalate (DBP)	ND	ND	0.005	ND	ND	0.0015	0.0030	0.1	0.1
Di(2-ethylhexyl) phthalate (DEHP)	0.0378	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)▲	ND	ND	0.0047	ND	ND	0.0015	0.0030	0.1	0.1
Di-n-pentyl phthalate (DPENP)▲	ND	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di-n-hexyl phthalate (DHEXP)▲	ND	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di-cyclohexyl phthalate (DCHP)▲	ND	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Diisooctyl phthalate (DIOP)▲	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:

(6) = GRAY RUBBER RING
(7) = WHITE COATING ON WOOD
(8) = BLACK COATING ON WOOD
(9) = ORANGE COATING ON WOOD
(10) = BROWN COATING ON WOOD

Refer BKKH19001237
Refer BKKH18008771
Refer BKKH18016831
Refer BKKH18010022
Refer BKKH18008771

TEST REPORT

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The results relate only to the item tested.

Number: BKKH18016930

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) = BLUE COATING ON WOOD	Refer	BKKH18008770
(2) = YELLOW COATING ON WOOD	Refer	BKKH18008771
(3) = LIGHT GREEN COATING ON WOOD	Refer	BKKH18012015S1
(4) = ORANGE COATING ON WOOD	Refer	BKKH18001632
(5) = BLUE COATING ON WOOD (320C)	Refer	BKKH18008773

TEST REPORT

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The results relate only to the item tested.

Number: BKKH18016930

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)	(8)	(9)	(10)			
Dibutyl Phthalate (DBP)	ND	ND	0.005	ND	ND	0.0015	0.0030	0.1
Di(2-ethylhexyl) phthalate (DEHP)	0.0378	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
Diocetyl 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) = GRAY RUBBER RING	Refer	BKKH19001237
(7) = WHITE COATING ON WOOD	Refer	BKKH18008771
(8) = BLACK COATING ON WOOD	Refer	BKKH18016831
(9) = ORANGE COATING ON WOOD	Refer	BKKH18010022
(10) = BROWN COATING ON WOOD	Refer	BKKH18008771

TEST REPORT

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Number: BKKH18016930

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> <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)	<13	2	13	90
(2)	<13	2	13	90
(3)	ND	2	13	90
(4)	ND	2	13	90
(5)	ND	2	13	90
(6)	<13	2	13	90
(7)	ND	2	13	90
(8)	ND	2	13	90
(9)	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) = BLUE COATING ON WOOD	Refer	BKKH18008770
(2) = YELLOW COATING ON WOOD	Refer	BKKH18008771
(3) = LIGHT GREEN COATING ON WOOD	Refer	BKKH18012015S1
(4) = ORANGE COATING ON WOOD	Refer	BKKH18001632
(5) = BLUE COATING ON WOOD (320C)	Refer	BKKH18008773
(6) = WHITE COATING ON WOOD	Refer	BKKH18008771
(7) = BLACK COATING ON WOOD	Refer	BKKH18016831
(8) = ORANGE COATING ON WOOD	Refer	BKKH18010022
(9) = BROWN COATING ON WOOD	Refer	BKKH18008771

TEST REPORT

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The results relate only to the item tested.

Number: BKKH18016930

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>
(10)	ND	1	13	100
(11)	ND	1	13	100
(12)	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)

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:

(10) = COTTON CORD	Refer	BKKH18011513
(11) = CREAM COTTON CORD	Refer	BKKH18008762
(12) = GRAY RUBBER RING	Refer	BKKH19001237

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

*****END*****/KS/NK

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