

TEST REPORT

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The results relate only to the item tested.

Number: BKKH19004490

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

Date: May 23, 2019

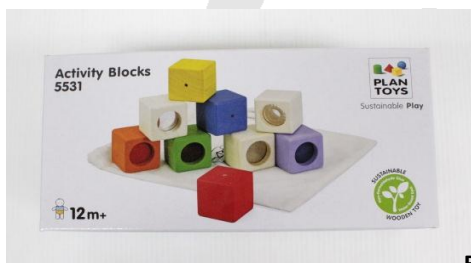
Sample description:

Quantity of sample:	One (1) set
Sample description:	Wooden toy
Date sample received:	April 02, 2019
Date information received:	May 13, 2019
Date sample resubmitted:	May 07, 2019

Client Information:

One (1) set of submitted sample said to be ACTIVITY BLOCKS

Item Name: ACTIVITY BLOCKS
Item Number: 5531



BKKH19004490

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:

<u>Tested samples</u>	<u>Standard</u>	<u>Result</u>
Submitted sample	U.S. ASTM F963-17 for Physical and mechanical tests	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
	<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
	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>		
PURPLE COATING ON WOOD	BKKH18001632	Feb 12, 2018
WHITE COATING ON WOOD	BKKH18008771	Jul 12, 2018
GREEN COATING ON WOOD	BKKH18009874	Aug 01, 2018
ORANGE COATING ON WOOD	BKKH18010022	Aug 03, 2018
YELLOW COATING ON WOOD	BKKH18008773	Jul 12, 2018
RED COATING ON WOOD	BKKH18008770	Jul 12, 2018
BLUE COATING ON WOOD	BKKH18009125	Jul 18, 2018
BROWN COATING ON WOOD	BKKH18008771	Jul 12, 2018
WHITE FABRIC WITH BROWN PRINT	BKKH18009385S1	Aug 01, 2018
PLASTIC LENS	BKKH18011518	Aug 30, 2018
PC MIRROR	BKKH18009793	Jul 23, 2018
CREAM COTTON CORD	BKKH18009385S1	Aug 01, 2018
<u>ASTM F963-17: Heavy metal</u>		
RED FABRIC	BKKH19005331	May 03, 2019
BROWN FRIEZE	BKKH19003506	Mar 21, 2019
BLUE FRIEZE	BKKH19003506	Mar 21, 2019
<u>Lead in surface coating</u>		
PURPLE COATING ON WOOD	BKKH18001632	Feb 12, 2018
WHITE COATING ON WOOD	BKKH18008771	Jul 12, 2018
GREEN COATING ON WOOD	BKKH18009874	Aug 01, 2018
ORANGE COATING ON WOOD	BKKH18010022	Aug 03, 2018
YELLOW COATING ON WOOD	BKKH18008773	Jul 12, 2018
RED COATING ON WOOD	BKKH18008770	Jul 12, 2018
BLUE COATING ON WOOD	BKKH18009125	Jul 18, 2018
BROWN COATING ON WOOD	BKKH18008771	Jul 12, 2018
<u>Lead in substrate</u>		
RED FABRIC	BKKH19005331	May 03, 2019
BROWN FRIEZE	BKKH19003506	Mar 21, 2019
BLUE FRIEZE	BKKH19003506	Mar 21, 2019
WHITE FABRIC WITH BROWN PRINT	BKKH18009385S1	Aug 01, 2018
PLASTIC LENS	BKKH18011518	Aug 30, 2018
PC MIRROR	BKKH18009793	Jul 23, 2018
CREAM COTTON CORD	BKKH18009385S1	Aug 01, 2018



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Components

Phthalate content

Report No.

Date

PURPLE COATING ON WOOD	BKKH18001632	Feb 12, 2018
WHITE COATING ON WOOD	BKKH18008771	Jul 12, 2018
GREEN COATING ON WOOD	BKKH18009874	Aug 01, 2018
ORANGE COATING ON WOOD	BKKH18010022	Aug 03, 2018
YELLOW COATING ON WOOD	BKKH18008773	Jul 12, 2018
RED COATING ON WOOD	BKKH18008770	Jul 12, 2018
BLUE COATING ON WOOD	BKKH18009125	Jul 18, 2018
PLASTIC LENS	BKKH18011518	Aug 30, 2018
PC MIRROR	BKKH18009793	Jul 23, 2018
BROWN COATING ON WOOD	BKKH18008771	Jul 12, 2018



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Number: BKKH19004490

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 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)	10 x 4.5 ft
Torque test	Section 1500.53(e)	4 in-lbf
Tension test	Section 1500.53(f)	15 lbf

Clause	Testing items	Assessment
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	P
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	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	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 : April 02, 2019 to May 09, 2019

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Number: BKKH19004490

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 (L_{Cpeak})</u>	<u>Limit (db)</u>
Auditory (Red)	96.9	115

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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 : April 02, 2019 to April 22, 2019



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Number: BKKH19004490

Test conducted:

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

x Plain surface

o Raised surface

Burn direction:		x length o width		Burn direction:		x length o width	
Prelim Raised surface:				Prelim Raised surface:			
length : DNI				length : DNI			
width : DNI				width : DNI			
<u>Original</u> <u>(seconds)</u>				<u>After one drycleaning/laundry</u> <u>(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:

x class 1,

Normal flammability

o class 2,

Intermediate flammability, raised surface

o 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: White fabric

Testing period : April 10, 2019 to April 17, 2019

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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)	99	10	<5	ND	5	1	5	1000
Sol. Lead (Pb)	ND	ND	<5	ND	<5	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) = PURPLE COATING ON WOOD	Refer	BKKH18001632
(2) = WHITE COATING ON WOOD	Refer	BKKH18008771
(3) = GREEN COATING ON WOOD	Refer	BKKH18009874
(4) = ORANGE COATING ON WOOD	Refer	BKKH18010022
(5) = YELLOW COATING ON WOOD	Refer	BKKH18008773

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

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Number: BKKH19004490

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)	<u>LOD</u> <u>mg/kg</u>	<u>LOQ</u> <u>mg/kg</u>	<u>Limit mg/kg</u>
Sol. Barium (Ba)	604	851	572	1	5	1000
Sol. Lead (Pb)	ND	ND	ND	1	5	90
Sol. Cadmium (Cd)	ND	ND	ND	1	5	75
Sol. Antimony (Sb)	ND	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)

Tested components:

(6) = RED COATING ON WOOD	Refer	BKKH18008770
(7) = BLUE COATING ON WOOD	Refer	BKKH18009125
(8) = 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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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.

	(9)	(10)	Result mg/kg (11)	(12)	(13)	LOD mg/kg	LOQ mg/kg	Limit mg/kg
Sol. Barium (Ba)	ND	6	ND	ND	ND	1	5	1000
Sol. Lead (Pb)	ND	ND	<5	ND	ND	1	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	ND	1	5	75
Sol. Antimony (Sb)	ND	ND	<5	<5	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 items are not included in the TISI Accreditation

Tested components:

(9) = RED FABRIC
(10) = BROWN FRIEZE
(11) = BLUE FRIEZE
(12) = WHITE FABRIC WITH BROWN PRINT
(13) = PLASTIC LENS

Refer BKKH19005331
Refer BKKH19003506
Refer BKKH19003506
Refer BKKH18009385S1
Refer BKKH18011518

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

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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>LOD</u>	<u>LOQ</u>	<u>Limit mg/kg</u>
	<u>mg/kg</u>		<u>mg/kg</u>	<u>mg/kg</u>	
	(14)	(15)			
Sol. Barium (Ba)	ND	ND	1	5	1000
Sol. Lead (Pb)	ND	ND	1	5	90
Sol. Cadmium (Cd)	ND	ND	1	5	75
Sol. Antimony (Sb)	ND	<5	2	5	60
Sol. Selenium (Se)	ND	ND	1	5	500
Sol. Chromium (Cr)	ND	ND	2	5	60
Sol. Mercury (Hg)	ND	ND	1	5	60
Sol. Arsenic (As)	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:

(14) = PC MIRROR

(15) = CREAM COTTON CORD

Refer BKKH18009793

Refer BKKH18009385S1

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)	<13	2	13	90
(3)	<13	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

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) = PURPLE COATING ON WOOD	Refer BKKH18001632
(2) = WHITE COATING ON WOOD	Refer BKKH18008771
(3) = GREEN COATING ON WOOD	Refer BKKH18009874
(4) = ORANGE COATING ON WOOD	Refer BKKH18010022
(5) = YELLOW COATING ON WOOD	Refer BKKH18008773
(6) = RED COATING ON WOOD	Refer BKKH18008770
(7) = BLUE COATING ON WOOD	Refer BKKH18009125
(8) = BROWN COATING ON WOOD	Refer BKKH18008771

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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>
(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: 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:

(9) = RED FABRIC	Refer BKKH19005331
(10) = BROWN FRIEZE	Refer BKKH19003506
(11) = BLUE FRIEZE	Refer BKKH19003506
(12) = WHITE FABRIC WITH BROWN PRINT	Refer BKKH18009385S1
(13) = PLASTIC LENS	Refer BKKH18011518
(14) = PC MIRROR	Refer BKKH18009793
(15) = CREAM COTTON CORD	Refer BKKH18009385S1

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Test conducted:

5 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.

Tested component	Result %	LOD %	LOQ %	Limit %
(1)	ND	0.0002	0.0013	0.0090
(2)	<0.0013	0.0002	0.0013	0.0090
(3)	<0.0013	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

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) = PURPLE COATING ON WOOD	Refer	BKKH18001632
(2) = WHITE COATING ON WOOD	Refer	BKKH18008771
(3) = GREEN COATING ON WOOD	Refer	BKKH18009874
(4) = ORANGE COATING ON WOOD	Refer	BKKH18010022
(5) = YELLOW COATING ON WOOD	Refer	BKKH18008773
(6) = RED COATING ON WOOD	Refer	BKKH18008770
(7) = BLUE COATING ON WOOD	Refer	BKKH18009125
(8) = BROWN COATING ON WOOD	Refer	BKKH18008771

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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)	<13	2	13	90
(3)	<13	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

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) = PURPLE COATING ON WOOD	Refer	BKKH18001632
(2) = WHITE COATING ON WOOD	Refer	BKKH18008771
(3) = GREEN COATING ON WOOD	Refer	BKKH18009874
(4) = ORANGE COATING ON WOOD	Refer	BKKH18010022
(5) = YELLOW COATING ON WOOD	Refer	BKKH18008773
(6) = RED COATING ON WOOD	Refer	BKKH18008770
(7) = BLUE COATING ON WOOD	Refer	BKKH18009125
(8) = BROWN COATING ON WOOD	Refer	BKKH18008771

TEST REPORT

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The results relate only to the item tested.

Number: BKKH19004490

Test conducted:

7 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>mg/kg</u>	<u>LOD</u> <u>mg/kg</u>	<u>LOQ</u> <u>mg/kg</u>	<u>Limit mg/kg</u>
(1)	ND	1	13	100
(2)	ND	1	13	100
(3)	ND	1	13	100
(4)	ND	1	13	100
(5)	ND	1	13	100
(6)	ND	1	13	100
(7)	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) = RED FABRIC	Refer BKKH19005331
(2) = BROWN FRIEZE	Refer BKKH19003506
(3) = BLUE FRIEZE	Refer BKKH19003506
(4) = WHITE FABRIC WITH BROWN PRINT	Refer BKKH18009385S1
(5) = PLASTIC LENS	Refer BKKH18011518
(6) = PC MIRROR	Refer BKKH18009793
(7) = CREAM COTTON CORD	Refer BKKH18009385S1

TEST REPORT

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The results relate only to the item tested.

Number: BKKH19004490

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> (%, 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) = PURPLE COATING ON WOOD	Refer	BKKH18001632
(2) = WHITE COATING ON WOOD	Refer	BKKH18008771
(3) = GREEN COATING ON WOOD	Refer	BKKH18009874
(4) = ORANGE COATING ON WOOD	Refer	BKKH18010022
(5) = YELLOW COATING ON WOOD	Refer	BKKH18008773

TEST REPORT

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The results relate only to the item tested.

Number: BKKH19004490

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	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	<0.0030	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) = RED COATING ON WOOD	Refer	BKKH18008770
(7) = BLUE COATING ON WOOD	Refer	BKKH18009125
(8) = PLASTIC LENS	Refer	BKKH18011518
(9) = PC MIRROR	Refer	BKKH18009793
(10) = BROWN COATING ON WOOD	Refer	BKKH18008771

TEST REPORT

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The results relate only to the item tested.

Number: BKKH19004490

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>
	<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) = PURPLE COATING ON WOOD	Refer	BKKH18001632
(2) = WHITE COATING ON WOOD	Refer	BKKH18008771
(3) = GREEN COATING ON WOOD	Refer	BKKH18009874
(4) = ORANGE COATING ON WOOD	Refer	BKKH18010022
(5) = YELLOW COATING ON WOOD	Refer	BKKH18008773

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The results relate only to the item tested.

Number: BKKH19004490

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	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
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) = RED COATING ON WOOD	Refer	BKKH18008770
(7) = BLUE COATING ON WOOD	Refer	BKKH18009125
(8) = PLASTIC LENS	Refer	BKKH18011518
(9) = PC MIRROR	Refer	BKKH18009793
(10) = BROWN COATING ON WOOD	Refer	BKKH18008771

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Number: BKKH19004490

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)	<13	2	13	90
(3)	<13	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

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:

▲ = Tested items are not included in the TISI Accreditation
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) = PURPLE COATING ON WOOD	Refer	BKKH18001632
(2) = WHITE COATING ON WOOD	Refer	BKKH18008771
(3) = GREEN COATING ON WOOD	Refer	BKKH18009874
(4) = ORANGE COATING ON WOOD	Refer	BKKH18010022
(5) = YELLOW COATING ON WOOD	Refer	BKKH18008773
(6) = RED COATING ON WOOD	Refer	BKKH18008770
(7) = BLUE COATING ON WOOD	Refer	BKKH18009125
(8) = BROWN COATING ON WOOD	Refer	BKKH18008771

TEST REPORT

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The results relate only to the item tested.

Number: BKKH19004490

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>
(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:

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:

(9) = RED FABRIC	Refer	BKKH19005331
(10) = BROWN FRIEZE	Refer	BKKH19003506
(11) = BLUE FRIEZE	Refer	BKKH19003506
(12) = WHITE FABRIC WITH BROWN PRINT	Refer	BKKH18009385S1
(13) = PLASTIC LENS	Refer	BKKH18011518
(14) = PC MIRROR	Refer	BKKH18009793
(15) = CREAM COTTON CORD	Refer	BKKH18009385S1

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

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

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