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The results relate only to the item tested.



Date: Feb 11, 2019

Applicant: PLAN CREATIONS CO., LTD.

8 MOO 8, TRANG-PALIAN RD.,

YANTAKAO, TRANG, THAILAND 92140 ATTN: K.NARONG, K.SUPAPORN

Sample description:

Quantity of sample:

Sample description:

Date sample received:

Date information received:

One (1) set

Wooden toy

October 03, 2019

January 31, 2019

Client Information:

One (1) set of submitted sample said to be CHILDREN'S ROOM-NEO

Item Name: CHILDREN'S ROOM-NEO

Item Number: 7304





BKKH18013411

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 Laboratory Manager

Hardlines Department

Ladtola N

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Number: BKKH18013411

Pass

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lusion:

Tested samples Standard Result Submitted sample U.S. ASTM F963-17 for Physical and mechanical tests Pass U.S. ASTM F963-17 for Flammability test of materials Pass other than textile materials U.S. ASTM F963-16 for Heavy elements Test **Pass** Standard - U.S. CFR title 16

Standard

(CPSC regulations)

Part 1303 total Lead content

Pass 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

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

As requested by the applicant, the test was conducted only on components listed in this report.

Other components were not tested.



Remark:



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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.

Components	Report No.	<u>Date</u>
ASTM F963-16: Heavy metal		
BLUE COATING ON WOOD	BKKH18008770	Jul 12, 2018
LACQUER COATING ON WOOD	BKKH18008771	Jul 12, 2018
RED COATING ON WOOD	BKKH18008770	Jul 12, 2018
BROWN COATING ON WOOD	BKKH18008771	Jul 12, 2018
BLUE-WHITE FABRIC	BKKH18002458	Feb 27, 2018
WHITE FABRIC	BKKH18011946S1	Oct 22, 2018
SPONGE	BKKH18011943S1	Oct 12, 2018
BROWN PLASTIC (ABS)	BKKH18001628	Feb 12, 2018
Lead in surface coating		
BLUE COATING ON WOOD	BKKH18008770	Jul 12, 2018
LACQUER COATING ON WOOD	BKKH18008771	Jul 12, 2018
RED COATING ON WOOD	BKKH18008770	Jul 12, 2018
BROWN COATING ON WOOD	BKKH18008771	Jul 12, 2018
<u>Lead in substrate</u>		
BLUE-WHITE FABRIC	BKKH18002458	Feb 27, 2018
WHITE FABRIC	BKKH18011946S1	Oct 22, 2018
SPONGE	BKKH18011943S1	Oct 12, 2018
BROWN PLASTIC (ABS)	BKKH18001628	Feb 12, 2018
Phthalate content		
BLUE COATING ON WOOD	BKKH18008770	Jul 12, 2018
LACQUER COATING ON WOOD	BKKH18008771	Jul 12, 2018
RED COATING ON WOOD	BKKH18008770	Jul 12, 2018
SPONGE	BKKH18011943S1	Oct 12, 2018
BROWN COATING ON WOOD	BKKH18008771	Jul 12, 2018

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Test conducted:

1 Physical And Mechanical Tests ¹

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

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

<u>Clause</u>	<u>Testing items</u>	<u>Assessment</u>
4.1	Material quality	Р
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	Р
4.8	Projections	NA
4.9	Accessible points	Р
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:

<u>Clause</u>	<u>Testing items</u>	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	Р
6	Instructional literature	P
7	Producer's markings	W
	- name of producer (toy and package)	Yes
	- address (package)	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: October 16, 2018 to November 07, 2018



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Test conducted:

Flammability Test *

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

<u>Sample</u>	Ignition point	Burn length (inch)	<u>Time</u> (sec)	Actual burn rate (inch/sec)	Rounded burn rate (inch/sec)	<u>Limit</u> (inch/sec)
Mattress	Corner to corner	5	55	0.09	-	0.10

The above result only showed the most severe burn rate of the samples and components.

Tested items are not included in the TISI Accreditation

Testing period: October 16, 2018 to November 07, 2018





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The results relate only to the item tested.

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.

			Result		LOD	<u>LOQ</u>	Limit mg/kg
			mg/kg		mg/kg	mg/kg	
	(1)	(2)	(3)	(4)			
Sol. Barium (Ba)	9	<5	604	572	1	5	1000
Sol. Lead (Pb)	<i>-</i> <5	ND	ND	ND	1	5	90
, ,	_				1	5	
Sol. Cadmium (Cd)	ND	ND	ND	ND	_	_	75 60
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

> Milligram per kilogram based on weight of sample; = ppm = Parts per million mg/kg =Limit of Detection Limit of Quantitation LOD = LOQ =

ND = Not detected (Less than LOD) < = Less than

Tested components:

(1) =	BLUE COATING ON WOOD		Refer	BKKH18008770
(2) =	LACQUER COATING ON WOOD		Refer	BKKH18008771
(3) =	RED COATING ON WOOD		Refer	BKKH18008770
(4) =	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, 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>	Limit mg/kg
			mg/kg		mg/kg	mg/kg	
	(5)	(6)	(7)	(8)			
Sol. Barium (Ba)	<5	ND	ND	ND	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	<5	ND	ND	2	5	60
Sol. Selenium (Se)	ND	ND	ND	ND	1	5	500
Sol. Chromium (Cr)	ND	ND	<5	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
LOQ = Limit of Quantitation

ND = Not detected (Less than LOD) <= Less than

Tested components:

(5) =	BLUE-WHITE FABRIC	Refer	BKKH18002458
(6) =	WHITE FABRIC	Refer	BKKH18011946S1
(7) =	SPONGE	Refer	BKKH18011943S1
(8) =	BROWN PLASTIC (ABS)	Refer	BKKH18001628

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

Tested Component	<u>Result</u>	<u>LOD LOQ</u>	<u>Limit</u>
rested Component	mg/kg	(mg/kg) (mg/kg)	<u>(mg/kg)</u>
(1)	<13	2 13	90
(2)	ND	2 13	90
(3)	ND	2 13	90
(4)	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) =	LACQUER COATING ON WOOD		Refer	BKKH18008771
(3) =	RED COATING ON WOOD		Refer	BKKH18008770
(4) =	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, 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

Tested Component	<u>Result</u>	<u>LOD LOQ</u>	<u>Limit</u>
	mg/kg	(mg/kg) (mg/kg)	<u>(mg/kg)</u>
(5)	ND	1 13	100
(6)	ND	1 13	100
(7)	ND	1 13	100
(8)	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:

(5) = BLUE-WHITE FABRIC Refer BKKH18002458 (6) = WHITE FABRIC Refer BKKH18011946S1 (7) = SPONGE Refer BKKH18011943S1 (8) = BROWN PLASTIC (ABS) Refer BKKH18001628



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Test conducted:

4 Total Lead (Pb) content ⁴

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

2

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

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) =	LACQUER COATING ON WOOD	Refer	BKKH18008771
(3) =	RED COATING ON WOOD	Refer	BKKH18008770
(4) =	BROWN COATING ON WOOD	Refer	BKKH18008771



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The results relate only to the item tested.

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.

Tested component	<u>Result</u>	<u>LOD</u>	<u>LOQ</u>	Limit mg/kg
	mg/kg	mg/kg	mg/kg	
(1)	<13	2	13	90
(2)	ND	2	13	90
(3)	ND	2	13	90
(4)	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) =	LACQUER COATING ON WOOD	Refer	BKKH18008771
(3) =	RED COATING ON WOOD	Refer	BKKH18008770
(4) =	BROWN COATING ON WOOD	Refer	BKKH18008771



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Test conducted:

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. 2

		,		
Tested component	<u>Result</u>	<u>LOD</u>	<u>LOQ</u>	<u>Limit mg/kg</u>
	mg/kg	mg/kg	mg/kg	
(1)	ND	1	13	100
(2)	ND	1	13	100
(3)	ND	1	13	100
(4)	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) =
 BLUE-WHITE FABRIC
 Refer
 BKKH18002458

 (2) =
 WHITE FABRIC
 Refer
 BKKH18011946S1

 (3) =
 SPONGE
 Refer
 BKKH18011943S1

 (4) =
 BROWN PLASTIC (ABS)
 Refer
 BKKH18001628



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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. 2

			Result			<u>LOD</u>	LOQ	(16CFR1307)	<u>NPR</u>
			(%, w/w	1		(%, w/w)	(%, w/w)	Limit (%, w/w)	(%, w/w)
	(1)	(2)	(3)	(4)	(5)				
Dibutyl Phthalate (DBP)	ND	ND	ND	0.0067	ND	0.0015	0.0030	0.1	0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	0.0103	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	<0.0030	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) =	LACQUER COATING ON WOOD	Refer	BKKH18008771
(3) =	RED COATING ON WOOD	Refer	BKKH18008770
(4) =	SPONGE	Refer	BKKH18011943S1
(5) =	BROWN COATING ON WOOD	Refer	BKKH18008771

(n)



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Test conducted:

8 Phthalate content test A

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

			Result			<u>LOD</u>	LOQ	<u>Limit</u>
			<u>(%, w/w</u>)		(%, w/w)	<u>(%, w/w)</u>	(%, w/w)
	(1)	(2)	(3)	(4)	(5)			
Dibutyl Phthalate (DBP)	ND	ND	ND	0.0067	ND	0.0015	0.0030	0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	0.0103	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) =	BLUE COATING ON WOOD	Refer	BKKH18008770
(2) =	LACQUER COATING ON WOOD	Refer	BKKH18008771
(3) =	RED COATING ON WOOD	Refer	BKKH18008770
(4) =	SPONGE	Refer	BKKH18011943S1
(5) =	BROWN COATING ON WOOD	Refer	BKKH18008771





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The results relate only to the item tested.

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.

Surface coating material L

Tested component	<u>Result</u>	<u>LOD</u> <u>LOQ</u>	<u>Limit</u>
	mg/kg	mg/kg mg/kg	mg/kg
(1)	<13	2 13	90
(2)	ND	2 13	90
(3)	ND	2 13	90
(4)	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)	=	LACQUER COATING ON WOOD	Refer	BKKH18008771
(3)	=	RED COATING ON WOOD	Refer	BKKH18008770
(4)	=	BROWN COATING ON WOOD	Refer	BKKH18008771



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Test conducted:

П Non-surface coating material (substrate)

Tested component	<u>Result</u>	LOD LOC	<u>Limit</u>
	mg/kg	mg/kg mg/l	kg mg/kg
(5)	ND	1 13	100
(6)	ND	1 13	100
(7)	ND	1 13	100
(8)	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:

(5)	=	BLUE-WHITE FABR	IC		Refer	BKKH18002458
(6)	=	WHITE FABRIC			Refer	BKKH18011946S1
(7)	=	SPONGE			Refer	BKKH18011943S1
(8)	=	BROWN PLASTIC (ABS)		Refer	BKKH18001628

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

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