TEST REPORT

NSC-TISI-TIS 17025
TESTING 0417

Number: BKKH18013297

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

Date: Dec 28, 2018

Sample description:

Quantity of sample:	One (1) set
Sample description:	Wooden toy
Date sample received:	October 03, 2018
Date information received:	December 27, 2018

Client Information:

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

Item Name:	DOCTOR SET
Item Number:	3451

BKKH18013297

****

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

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com

Conclusion:

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 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.

****

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com

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.	Date
ASTM F963-16: Heavy metal		
WHITE COATING ON WOOD	BKKH18008771	Jul 12, 2018
LACQUER COATING ON WOOD	BKKH18008771	Jul 12, 2018
RED COATING ON WOOD	BKKH18008770	Jul 12, 2018
BLUE COATING ON WOOD (320C)	BKKH18008773	Jul 12, 2018
DARK GRAY FABRIC	BKKH18008762	Jul 11, 2018
LABEL FABRIC	BKKH18008759	Jul 11, 2018
WHITE PLASTIC (VELCRO)	BKKH18008777	Jul 11, 2018
CLOTH TAPE	BKKH18008759	Jul 11, 2018
COTTON CORD	BKKH18010282	Aug 06, 2018
WHITE ELASTIC	BKKH18005325	May 09, 2018
ASTM F963-17: Heavy metal		
GRAY COATING ON WOOD	BKKH18016831	Dec 25, 2018
DARK GRAY COATING ON WOOD	BKKH18016831	Dec 25, 2018
RED FABRIC	BKKH18016417	Dec 20, 2018
WHITE FABRIC WITH BLUE PRINT	BKKH18016417	Dec 20, 2018
CLEAR PLASTIC	BKKH18016416	Dec 20, 2018
Lead in surface coating		
WHITE COATING ON WOOD	BKKH18008771	Jul 12, 2018
LACQUER COATING ON WOOD	BKKH18008771	Jul 12, 2018
RED COATING ON WOOD	BKKH18008770	Jul 12, 2018
GRAY COATING ON WOOD	BKKH18016831	Dec 25, 2018
BLUE COATING ON WOOD (320C)	BKKH18008773	Jul 12, 2018
DARK GRAY COATING ON WOOD	BKKH18016831	Dec 25, 2018
Lead in substrate		
DARK GRAY FABRIC	BKKH18008762	Jul 11, 2018
RED FABRIC	BKKH18016417	Dec 20, 2018
WHITE FABRIC WITH BLUE PRINT	BKKH18016417	Dec 20, 2018
LABEL FABRIC	BKKH18008759	Jul 11, 2018
WHITE PLASTIC (VELCRO)	BKKH18008777	Jul 11, 2018
CLEAR PLASTIC	BKKH18016416	Dec 20, 2018
CLOTH TAPE	BKKH18008759	Jul 11, 2018
COTTON CORD	BKKH18010282	Aug 06, 2018
WHITE ELASTIC	BKKH18005325	May 09, 2018

****

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com

TEST REPORT

Number: BKKH18013297

Components	Report No.	Date
Phthalate content		
WHITE COATING ON WOOD	BKKH18008771	Jul 12, 2018
LACQUER COATING ON WOOD	BKKH18008771	Jul 12, 2018
RED COATING ON WOOD	BKKH18008770	Jul 12, 2018
GRAY COATING ON WOOD	BKKH18016831	Dec 25, 2018
BLUE COATING ON WOOD (320C)	BKKH18008773	Jul 12, 2018
DARK GRAY COATING ON WOOD	BKKH18016831	Dec 25, 2018
WHITE PLASTIC (VELCRO)	BKKH18008778	Jul 10, 2018
CLEAR PLASTIC	BKKH18016416	Dec 20, 2018
WHITE ELASTIC	BKKH18005325	May 09, 2018

****

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com

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 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	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	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

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com

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	P
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 : October 03, 2018 to October 09, 2018

****

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com

Test conducted:

2 Flammability Test▲

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

Sample	Ignition point	Burn length (inch)	Time (sec)	Actual burn rate (inch/sec)	Rounded burn rate (inch/sec)	Limit (inch/sec)
Blood-Pressure monitor	End to end	0.9	60	0.02	-	0.10

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

Remark : ▲ = Tested items are not included in the TISI Accreditation

Testing period : October 03, 2018 to October 09, 2018

****

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com

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

	Result mg/kg					LOD mg/kg	LOQ mg/kg	Limit mg/kg
	(1)	(2)	(3)	(4)	(5)			
Sol. Barium (Ba)	10	<5	604	89	<5	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
LOQ = Limit of Quantitation
ND = Not detected (Less than LOD)
< = Less than
▲ = Tested items are not included in the TISI Accreditation

Tested components:

(1) =	WHITE COATING ON WOOD	Refer	BKKH18008771
(2) =	LACQUER COATING ON WOOD	Refer	BKKH18008771
(3) =	RED COATING ON WOOD	Refer	BKKH18008770
(4) =	GRAY COATING ON WOOD	Refer	BKKH18016831
(5) =	BLUE COATING ON WOOD (320C)	Refer	BKKH18008773

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

****

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com

Test conducted:

Heavy Elements Analysis

As per clause 4.3.5.1(2) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17▲, acid extraction method was used and heavy elements migration content were determined by ICP-OES analysis.

		Result mg/kg	LOD mg/kg	LOQ mg/kg	Limit mg/kg
	(6)				
Sol. Barium (Ba)	38		1	5	1000
Sol. Lead (Pb)	ND		1	5	90
Sol. Cadmium (Cd)	ND		1	5	75
Sol. Antimony (Sb)	ND		2	5	60
Sol. Selenium (Se)	ND		1	5	500
Sol. Chromium (Cr)	ND		2	5	60
Sol. Mercury (Hg)	ND		1	5	60
Sol. Arsenic (As)	ND		2	5	25

Remark:
Sol. = Soluble
mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million
LOD = Limit of Detection
LOQ = Limit of Quantitation
ND = Not detected (Less than LOD)
< = Less than
▲ = Tested items are not included in the TISI Accreditation

Tested components:
(6) = DARK GRAY COATING ON WOOD Refer BKKH18016831

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

****

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com

TEST REPORT

Number: BKKH18013297

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.

	Result mg/kg					LOD mg/kg	LOQ mg/kg	Limit mg/kg
	(7)	(8)	(9)	(10)	(11)			
Sol. Barium (Ba)	6	ND	ND	ND	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	5	ND	8	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:

(7) =	DARK GRAY FABRIC	Refer	BKKH18008762
(8) =	RED FABRIC	Refer	BKKH18016417
(9) =	WHITE FABRIC WITH BLUE PRINT	Refer	BKKH18016417
(10) =	LABEL FABRIC	Refer	BKKH18008759
(11) =	WHITE PLASTIC (VELCRO)	Refer	BKKH18008777

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

****

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com

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.

	Result mg/kg				LOD mg/kg	LOQ mg/kg	Limit mg/kg
	(12)	(13)	(14)	(15)			
Sol. Barium (Ba)	ND	ND	<5	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	7	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
LOQ = Limit of Quantitation
ND = Not detected (Less than LOD)
< = Less than
▲ = Tested items are not included in the TISI Accreditation

Tested components:

(12) =	CLEAR PLASTIC	Refer	BKKH18016416
(13) =	CLOTH TAPE	Refer	BKKH18008759
(14) =	COTTON CORD	Refer	BKKH18010282
(15) =	WHITE ELASTIC	Refer	BKKH18005325

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

****

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com

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)	ND	2	13	90
(3)	ND	2	13	90
(4)	ND	2	13	90
(5)	ND	2	13	90
(6)	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)	=	WHITE COATING ON WOOD	Refer	BKKH18008771
(2)	=	LACQUER COATING ON WOOD	Refer	BKKH18008771
(3)	=	RED COATING ON WOOD	Refer	BKKH18008770
(4)	=	GRAY COATING ON WOOD	Refer	BKKH18016831
(5)	=	BLUE COATING ON WOOD (320C)	Refer	BKKH18008773
(6)	=	DARK GRAY COATING ON WOOD	Refer	BKKH18016831

****

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com

TEST REPORT

Number: BKKH18013297

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

Tested Component	Result mg/kg	LOD (mg/kg)	LOQ (mg/kg)	Limit (mg/kg)
(7)	ND	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)	<13	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) < = Less than
▲ = Tested items are not included in the TISI Accreditation

Tested components:

(7) = DARK GRAY FABRIC Refer BKKH18008762
(8) = RED FABRIC Refer BKKH18016417
(9) = WHITE FABRIC WITH BLUE PRINT Refer BKKH18016417
(10) = LABEL FABRIC Refer BKKH18008759
(11) = WHITE PLASTIC (VELCRO) Refer BKKH18008777
(12) = CLEAR PLASTIC Refer BKKH18016416
(13) = CLOTH TAPE Refer BKKH18008759
(14) = COTTON CORD Refer BKKH18010282
(15) = WHITE ELASTIC Refer BKKH18005325

****

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com

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.

Tested component	Result %	LOD %	LOQ %	Limit %
(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
(5)	ND	0.0002	0.0013	0.0090
(6)	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) = WHITE COATING ON WOOD Refer BKKH18008771
(2) = LACQUER COATING ON WOOD Refer BKKH18008771
(3) = RED COATING ON WOOD Refer BKKH18008770
(4) = GRAY COATING ON WOOD Refer BKKH18016831
(5) = BLUE COATING ON WOOD (320C) Refer BKKH18008773
(6) = DARK GRAY COATING ON WOOD Refer BKKH18016831

****

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com

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	Result mg/kg	LOD mg/kg	LOQ mg/kg	Limit mg/kg
(1)	<13	2	13	90
(2)	ND	2	13	90
(3)	ND	2	13	90
(4)	ND	2	13	90
(5)	ND	2	13	90
(6)	ND	2	13	90

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) =	WHITE COATING ON WOOD	Refer	BKKH18008771
(2) =	LACQUER COATING ON WOOD	Refer	BKKH18008771
(3) =	RED COATING ON WOOD	Refer	BKKH18008770
(4) =	GRAY COATING ON WOOD	Refer	BKKH18016831
(5) =	BLUE COATING ON WOOD (320C)	Refer	BKKH18008773
(6) =	DARK GRAY COATING ON WOOD	Refer	BKKH18016831

****

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com

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.

Tested component	Result mg/kg	LOD mg/kg	LOQ mg/kg	Limit mg/kg
(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
(8)	ND	1	13	100
(9)	<13	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) < = Less than

Tested components:

(1) =	DARK GRAY FABRIC	Refer	BKKH18008762
(2) =	RED FABRIC	Refer	BKKH18016417
(3) =	WHITE FABRIC WITH BLUE PRINT	Refer	BKKH18016417
(4) =	LABEL FABRIC	Refer	BKKH18008759
(5) =	WHITE PLASTIC (VELCRO)	Refer	BKKH18008777
(6) =	CLEAR PLASTIC	Refer	BKKH18016416
(7) =	CLOTH TAPE	Refer	BKKH18008759
(8) =	COTTON CORD	Refer	BKKH18010282
(9) =	WHITE ELASTIC	Refer	BKKH18005325

****

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com

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.

	Result (%, w/w)					LOD (%, w/w)	LOQ (%, w/w)	(16CFR1307) Limit (%, w/w)	NPR (%, 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) =	WHITE COATING ON WOOD	Refer	BKKH18008771
(2) =	LACQUER COATING ON WOOD	Refer	BKKH18008771
(3) =	RED COATING ON WOOD	Refer	BKKH18008770
(4) =	GRAY COATING ON WOOD	Refer	BKKH18016831
(5) =	BLUE COATING ON WOOD (320C)	Refer	BKKH18008773

****

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com

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.

	Result (%, w/w)				LOD (%, w/w)	LOQ (%, w/w)	(16CFR1307) Limit (%, w/w)	NPR (%, w/w)
	(6)	(7)	(8)	(9)				
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Benzyl butyl Phthalate (BBP)	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND	ND	ND	0.0015	0.0090	0.1	0.1
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	ND	0.0015	0.0030	--	--
Di-iso-decyl Phthalate (DIDP)	ND	ND	ND	ND	0.0015	0.0090	--	--
Di-isobutyl phthalate (DIBP)▲	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di-n-pentyl phthalate (DPENP)▲	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di-n-hexyl phthalate (DHEXP)▲	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di-cyclohexyl phthalate (DCHP)▲	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Diisooctyl phthalate (DIOP)▲	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) =	DARK GRAY COATING ON WOOD	Refer	BKKH18016831
(7) =	WHITE PLASTIC (VELCRO)	Refer	BKKH18008778
(8) =	CLEAR PLASTIC	Refer	BKKH18016416
(9) =	WHITE ELASTIC	Refer	BKKH18005325

****

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com

Test conducted:

8 Phthalate content test▲

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

	Result (%, w/w)					LOD (%, w/w)	LOQ (%, w/w)	Limit (%, w/w)
	(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
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) =	WHITE COATING ON WOOD	Refer	BKKH18008771
(2) =	LACQUER COATING ON WOOD	Refer	BKKH18008771
(3) =	RED COATING ON WOOD	Refer	BKKH18008770
(4) =	GRAY COATING ON WOOD	Refer	BKKH18016831
(5) =	BLUE COATING ON WOOD (320C)	Refer	BKKH18008773

****

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com

TEST REPORT

Number: BKKH18013297

Test conducted:

Phthalate content test▲

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

	Result (%, w/w)				LOD (%, w/w)	LOQ (%, w/w)	Limit (%, w/w)
	(6)	(7)	(8)	(9)			
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	0.0015	0.0030	0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	0.0015	0.0030	0.1
Benzyl butyl Phthalate (BBP)	ND	ND	ND	ND	0.0015	0.0030	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND	ND	ND	0.0015	0.0090	0.1
Dioctyl Phthalate (DNOP)	ND	ND	ND	ND	0.0015	0.0030	0.1
Di-iso-decyl Phthalate (DIDP)	ND	ND	ND	ND	0.0015	0.0090	0.1
Di-n-hexyl Phthalate (DnHP)	ND	ND	ND	ND	0.0015	0.0030	0.1

Remark : %, w/w = Percentage weight by weight
LOD = Limit of Detection
LOQ = Limit of Quantitation
ND = Not detected (Less than LOD)
▲ = Tested items are not included in the TISI Accreditation

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

Tested components:

(6) =	DARK GRAY COATING ON WOOD	Refer	BKKH18016831
(7) =	WHITE PLASTIC (VELCRO)	Refer	BKKH18008778
(8) =	CLEAR PLASTIC	Refer	BKKH18016416
(9) =	WHITE ELASTIC	Refer	BKKH18005325

****

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com

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

Tested component	Result mg/kg	LOD mg/kg	LOQ mg/kg	Limit mg/kg
(1)	<13	2	13	90
(2)	ND	2	13	90
(3)	ND	2	13	90
(4)	ND	2	13	90
(5)	ND	2	13	90
(6)	ND	2	13	90

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)	=	WHITE COATING ON WOOD	Refer	BKKH18008771
(2)	=	LACQUER COATING ON WOOD	Refer	BKKH18008771
(3)	=	RED COATING ON WOOD	Refer	BKKH18008770
(4)	=	GRAY COATING ON WOOD	Refer	BKKH18016831
(5)	=	BLUE COATING ON WOOD (320C)	Refer	BKKH18008773
(6)	=	DARK GRAY COATING ON WOOD	Refer	BKKH18016831

****

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com

Test conducted:

II Non-surface coating material (substrate)

Tested component	Result mg/kg	LOD mg/kg	LOQ mg/kg	Limit mg/kg
(7)	ND	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)	<13	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.

****

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com

TEST REPORT

Number: BKKH18013297

Test conducted:

Tested components:

(7)	=	DARK GRAY FABRIC	Refer	BKKH18008762
(8)	=	RED FABRIC	Refer	BKKH18016417
(9)	=	WHITE FABRIC WITH BLUE PRINT	Refer	BKKH18016417
(10)	=	LABEL FABRIC	Refer	BKKH18008759
(11)	=	WHITE PLASTIC (VELCRO)	Refer	BKKH18008777
(12)	=	CLEAR PLASTIC	Refer	BKKH18016416
(13)	=	CLOTH TAPE	Refer	BKKH18008759
(14)	=	COTTON CORD	Refer	BKKH18010282
(15)	=	WHITE ELASTIC	Refer	BKKH18005325

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

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

Intertek Testing Services (Thailand) Ltd.
1285/5 Prachachuen Road,
Wong-Sawang, Bangsue,
Bangkok 10800 Thailand
Tel + 662 765 2999
Fax + 662 765 2936
www.intertek.com