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The results relate only to the item tested.



Number: BKKH18013315

Date: Apr 23, 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, 2018

April 23, 2019

#### **Client Information:**

One (1) set of submitted sample said to be SEASONAL BINGO

Item Name: SEASONAL BINGO

Item Number: 4625







#### 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** 

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**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 F963-17 for Heavy elements Test **Pass** Standard - U.S. CFR title 16 (CPSC regulations) **Pass** Part 1303 total Lead content 16 CFR Part 1610 **Pass** Flammability test <u>Stand</u>ard 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** 

Remark:

As requested by the applicant, the test was conducted only on components listed in this report. Other components were not tested.

\*

Act 410 ILCS 45 section 6 (public act 095-1019)





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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>	Report No.	<u>Date</u>
ASTM F963-16: Heavy metal		
LACQUER COATING ON WOOD	BKKH18008771	Jul 12, 2018
WHITE FABRIC WITH BROWN PRINT	BKKH18009385S1	Aug 01, 2018
CREAM COTTON CORD	BKKH18009385S1	Aug 01, 2018
ASTM F963-17 Heavy metal		
MULTICOLOR COATING ON WOOD	BKKH19004857	Apr 22, 2019
ART PAPER (4625)	BKKH19003852	Apr 02, 2019
Lead in surface coating		
MULTICOLOR COATING ON WOOD	BKKH19004857	Apr 22, 2019
LACQUER COATING ON WOOD	BKKH18008771	Jul 12, 2018
<u>Lead in substrate</u>		
ART PAPER (4625)	BKKH19003852	Apr 02, 2019
WHITE FABRIC WITH BROWN PRINT	BKKH18009385S1	Aug 01, 2018
CREAM COTTON CORD	BKKH18009385S1	Aug 01, 2018
Phthalate content		
MULTICOLOR COATING ON WOOD	BKKH19004857	Apr 22, 2019
LACQUER COATING ON WOOD	BKKH18008771	Jul 12, 2018





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Test conducted:

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 Drop test Section 1500.53(b) 4 x 3.0 ft Section 1500.53(e) 4 in-lbf Torque test Tension test Section 1500.53(f) 15 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	NA
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>	<u>Assessment</u>
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	
	- 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 04, 2018 to October 11, 2018

## 2 Flammability Test<sup>▲</sup>

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: October 04, 2018 to October 11, 2018

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Test conducted:

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

x Plain surface o Raised surface

Burn		x length	Burn dire	ection:	x length	
dired	ction:	o width			o width	
Preli	m Raised s	urface:	Prelim Raised surface:			
leng	th : DNI		length: DNI			
width : DNI		width : DNI				
Origi	<u>inal</u>		After one drycleaning/laundering Requi		<u>Requirement</u>	
(seco	(seconds)		(seconds)			
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 quality as a base burn under the current

interpretation of cfr 1610.

0.0SF Only Time in seconds, surface flash only. No damage to the base fabric.

0.0 SFBB Time in seconds, surface flash base burn. Base starts burning at points other than the point

of impingement.

SF pw Surface flash, part way. No time shown because the surface flash did not reach the cord.

SF uc Surface flash under the cord, but does not break the cord.

SF poi Surface flash, at point of impingement only (equivalent to "did not ignite" for plain surface).

# Plain surface fabric with an average burn time less than 4.0 seconds as class 3 flammability

verse the 16 CFR 1610 standard of 3.5 seconds.

▲ = Tested items are not included in the TISI Accreditation

Test component: Cream fabric

Testing period: February 12, 2015 to February 17, 2015





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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 and F963-17<sup>A</sup>, 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	
	(1)	(2)				
Sol. Barium (Ba)	ND	<5		1	5	1000
Sol. Lead (Pb)	ND	ND		1	5	90
Sol. Cadmium (Cd)	ND	ND		1	5	75
Sol. Antimony (Sb)	ND	ND		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 LOQ = Limit of Quantitation

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

= Tested items are not included in the TISI Accreditation

### Tested components:

(1) = MULTICOLOR COATING ON WOOD

Refer BKKH19004857

(2) = LACQUER COATING ON WOOD

Refer BKKH18008771





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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 $^{\blacktriangle}$ , acid extraction method was used and heavy elements migration content were determined by ICP-OES analysis.

			Result	<u>LOD</u>	<u>LOQ</u>	Limit mg/kg
			mg/kg	mg/kg	mg/kg	
	(3)	(4)	(5)			
Sol. Barium (Ba)	10	ND	ND	1	5	1000
Sol. Lead (Pb)	<5	ND	ND	1	5	90
Sol. Cadmium (Cd)	ND	ND	ND	1	5	75
Sol. Antimony (Sb)	ND	<5	<5	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
LOQ = Limit of Quantitation

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

Tested items are not included in the TISI Accreditation

### Tested components:

(3) =	ART PAPER (4625)	Refer	BKKH19003852
(4) =	WHITE FABRIC WITH BROWN PRINT	Refer	BKKH18009385S1
(5) =	CREAM COTTON CORD	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 and F963-17<sup>♠</sup>, 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)	(mg/kg)
(1)	ND	2 13	90
(2)	ND	2 13	90

Remark: mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million

> LOD = Limit of Detection Limit of Quantitation LOQ =

ND = Not detected (Less than LOD)

Tested items are not included in the TISI Accreditation

#### Tested components:

(1) =MULTICOLOR COATING ON WOOD Refer BKKH19004857 LACQUER COATING ON WOOD (2) =Refer BKKH18008771

### 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<sup>♠</sup>, 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	<u>LOD</u> <u>LOQ</u>	<u>Limit</u>
	mg/kg	(mg/kg) (mg/kg)	(mg/kg)
(3)	<13	1 13	100
(4)	ND	1 13	100
(5)	ND	1 13	100

Remark: mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million

> 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:

ART PAPER (4625) Refer BKKH19003852 (4) =WHITE FABRIC WITH BROWN PRINT Refer BKKH18009385S1 **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 %	<u>Limit %</u>
(1)	ND	0.0002	0.0013	0.0090
(2)	ND	0.0002	0.0013	0.0090

Remark: % = percentage

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) = MULTICOLOR COATING ON WOOD

Refer BKKH19004857

(2) = LACQUER COATING ON WOOD

Refer BKKH18008771

### 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.

Tested component	<u>Result</u>	LOD	LOQ	Limit mg/kg
	mg/kg	mg/kg	mg/kg	
(1)	ND	2	13	90
(2)	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)

### Tested components:

(1) = MULTICOLOR COATING ON WOOD

Refer BKKH19004857

(2) = LACQUER COATING ON WOOD

Refer BKKH18008771

\*





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Test conducted:

7 <u>Total lead (Pb) content in substrate material- non-metal children's product</u>

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	<u>Result</u>	<u>LOD</u>	<u>LOQ</u>	<u>Limit mg/kg</u>
	mg/kg	mg/kg	mg/kg	
(1)	<13	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) <= Less than

Tested components:

(1) = ART PAPER (4625) Refer BKKH19003852 (2) = WHITE FABRIC WITH BROWN PRINT Refer BKKH18009385S1 (3) = CREAM COTTON CORD Refer BKKH18009385S1



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Test conducted:

#### 8 Phthalate content

As per CPSC-CH-C1001-09.3:2010 and U.S. Consumer Product Safety Improvement Act 2008 (H.R. 4040), Title I, Section 108 requirement on Phthalates, solvent extraction method was used and Phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

			<u>Result</u>	<u>LOD</u>	<u>LOQ</u>	(16CFR1307)	<u>NPR</u>
			<u>(%, w/w)</u>	(%, w/w)	(%, w/w)	<u>Limit (%, w/w)</u>	(%, w/w)
	(1)	(2)					
Dibutyl Phthalate (DBP)	ND	ND		0.0015	0.0030	0.1	0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND	ND		0.0015	0.0030	0.1	0.1
Benzyl butyl Phthalate (BBP)	ND	ND		0.0015	0.0030	0.1	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND		0.0015	0.0090	0.1	0.1
Di-n-octyl Phthalate (DNOP)	ND	ND		0.0015	0.0030		
Di-iso-decyl Phthalate (DIDP)	ND	ND		0.0015	0.0090		
Di-isobutyl phthalate (DIBP) ▲	ND	ND		0.0015	0.0030	0.1	0.1
Di-n-pentyl phthalate (DPENP) ▲	ND	ND		0.0015	0.0030	0.1	0.1
Di-n-hexyl phthalate (DHEXP) ▲	ND	ND		0.0015	0.0030	0.1	0.1
Di-cyclohexyl phthalate (DCHP) ▲	ND	ND		0.0015	0.0030	0.1	0.1
Diisooctyl phthalate (DIOP) ▲	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) =	MULTICOLOR COATING ON WOOD	Refer	BKKH19004857
(2) =	LACQUER COATING ON WOOD	Refer	BKKH18008771

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Number: BKKH18013315

#### Test conducted:

## 8 Phthalate content test A

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

			<u>Result</u>	<u>LOD</u>	LOQ	<u>Limit</u>
			<u>(%, w/w)</u>	(%, w/w)	(%, w/w)	(%, w/w)
	(1)	(2)				
Dibutyl Phthalate (DBP)	ND	ND		0.0015	0.0030	0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND	ND		0.0015	0.0030	0.1
Benzyl butyl Phthalate (BBP)	ND	ND		0.0015	0.0030	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND		0.0015	0.0090	0.1
Dioctyl Phthalate (DNOP)	ND	ND		0.0015	0.0030	0.1
Di-iso-decyl Phthalate (DIDP)	ND	ND		0.0015	0.0090	0.1
Di-n-hexyl Phthalate (DnHP)	ND	ND		0.0015	0.0030	0.1

Remark: %, w/w = Percentage weight by weight

LOD = Limit of Detection LOQ = Limit of Quantitation

ND = Not detected (Less than LOD)

▲ = Tested items are not included in the TISI Accreditation

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

### Tested components:

(1) = MULTICOLOR COATING ON WOOD

Refer BKKH19004857

(2) = LACQUER COATING ON WOOD

Refer BKKH18008771

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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	<u>Result</u>	LOD LOQ	<u>Limit</u>
	mg/kg	mg/kg mg/kg	mg/kg
(1)	ND	2 13	90
(2)	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)

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) = MULTICOLOR COATING ON WOOD Refer BKKH19004857 (2) = LACQUER COATING ON WOOD Refer BKKH18008771

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Test conducted:

#### II Non-surface coating material (substrate)

Tested component	<u>Result</u>	LOD LOQ	<u>Limit</u>
	mg/kg	mg/kg mg/kg	mg/kg
(3)	<13	1 13	100
(4)	ND	1 13	100
(5)	ND	1 13	100

Remark: < = Less than

mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million

LOD = Limit of Detection LOQ = Limit of Quantitation

ND = Not detected (Less than LOD)

Requirement: According to Illinois Lead poisoning prevention act 410 ILCS 45 section 6

(public act 095-019), appropriate warning statement is required when the Lead content of the submitted sample is more than 40 ppm but less than 90 ppm for surface coatings and less than 100 ppm for substrates by total weight or a lower standard for Lead content as may be established by federal

or state law or regulation.

#### Tested components:

(3)	=	ART PAPER (4625)	Refer	BKKH19003852
(4)	=	WHITE FABRIC WITH BROWN PRINT	Refer	BKKH18009385S1
(5)	=	CREAM COTTON CORD	Refer	BKKH18009385S1

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

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