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TEST REPORT

Number: BKKH17002819

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

Date: May 04, 2017

Sample description:

Quantity of sample:	One (1) set
Sample description:	Wooden toy
Date sample received:	March 01, 2017
Date information received:	May 03, 2017

Client Information:

One (1) set of submitted sample said to be BIRD HOUSE II

Item Name: BIRD HOUSE II
Item Number: 8607



Test conducted:

As requested by the applicant, for details please refer to attached page(s)

To be continued

Authorized by :
For 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

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TEST REPORT

Number: BKKH17002819

Conclusion:

Tested samples

Submitted sample

Standard

U.S. ASTM F963-16 for Flammability test of materials
other than textile materials

Result

Pass

U.S. ASTM F963-16 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

U.S. Consumer product safety improvement
Act 2008(H.R. 4040) Title I, Section 108
Requirement on 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 F963-11: Heavy metal</u>		
LACQUER COATING ON WOOD	BKKH16008147	Jun 09,2016
White Sawdust 5%	BKKH16007214	May 23,2016
ROPE COTTON	BKKH16016708	Nov 29,2016
GREEN SAWDUST (375C)	BKKH16017877	Dec 29,2016
Solid Wood	BKKH17000142	Jan 10,2017
<u>ASTM F963-16: Heavy metal</u>		
CREAM PLASTIC JOINT	BKKH17003197	Mar 13,2017
<u>Lead in surface coating</u>		
LACQUER COATING ON WOOD	BKKH16008147	Jun 09,2016
<u>Lead in substrate</u>		
White Sawdust 5%	BKKH16007214	May 23,2016
ROPE COTTON	BKKH16016708	Nov 29,2016
GREEN SAWDUST (375C)	BKKH16017877	Dec 29,2016
Solid Wood	BKKH17000142	Jan 10,2017
CREAM PLASTIC JOINT	BKKH17003197	Mar 13,2017
<u>Phthalate content</u>		
White Sawdust 5%	BKKH16007214	May 23,2016
LACQUER COATING ON WOOD	BKKH16008147	Jun 09,2016
GREEN SAWDUST (375C)	BKKH16017877	Dec 29,2016
CREAM PLASTIC JOINT	BKKH17003197	Mar 13,2017

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TEST REPORT

Number: BKKH17002819

Test conducted:

1 Heavy Elements Analysis

As per clause 4.3.5.1(2) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-11, acid extraction method was used and heavy elements migration content were determined by ICP-OES analysis.

	<u>Result</u> <u>mg/kg</u>	<u>LOD</u> <u>mg/kg</u>	<u>LOQ</u> <u>mg/kg</u>	<u>Limit mg/kg</u>
(1)				
Sol. Barium (Ba)	ND	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)

Tested components:

(1) = LACQUER COATING ON WOOD

Refer BKKH16008147

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

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TEST REPORT

Number: BKKH17002819

Test conducted:

Heavy Elements Analysis

As per clause 4.3.5.2(2)(b) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-11, acid extraction method was used and heavy elements migration content were determined by ICP-OES analysis.

			<u>Result</u> <u>mg/kg</u>			<u>LOD</u> <u>mg/kg</u>	<u>LOQ</u> <u>mg/kg</u>	<u>Limit mg/kg</u>
	(2)	(3)	(4)	(5)	(6)			
Sol. Barium (Ba)	ND	ND	<4	ND	ND	1	5	1000
Sol. Lead (Pb)	ND	ND	<4	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
< = 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 components:

(2) =	White Sawdust 5%	Refer	BKKH16007214
(3) =	ROPE COTTON	Refer	BKKH16016708
(4) =	GREEN SAWDUST (375C)	Refer	BKKH16017877
(5) =	Solid Wood	Refer	BKKH17000142
(6) =	CREAM PLASTIC JOINT	Refer	BKKH17003197

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

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TEST REPORT

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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 F963-11, 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

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) = LACQUER COATING ON WOOD

Refer BKKH16008147

Total Lead (Pb) Content

As per clause 4.3.5.2(2)(a) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-11 and 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

<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>
(2)	ND	1	13	100
(3)	ND	1	13	100
(4)	<13	1	13	100
(5)	ND	1	13	100
(6)	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)

Tested components:

(2) = White Sawdust 5%

Refer BKKH16007214

(3) = ROPE COTTON

Refer BKKH16016708

(4) = GREEN SAWDUST (375C)

Refer BKKH16017877

(5) = Solid Wood

Refer BKKH17000142

(6) = CREAM PLASTIC JOINT

Refer BKKH17003197

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TEST REPORT

Number: BKKH17002819

Test conducted:

2 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.

<u>Tested component</u>	<u>Result</u>	<u>LOD</u>	<u>LOQ</u>	<u>Limit</u>
	<u>%</u>	<u>%</u>	<u>%</u>	<u>%</u>
(1)	ND	0.0002	0.0013	0.009

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) = LACQUER COATING ON WOOD

Refer BKKH16008147

3 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>LOD</u>	<u>LOQ</u>	<u>Limit mg/kg</u>
	<u>mg/kg</u>	<u>mg/kg</u>	<u>mg/kg</u>	
(1)	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) = LACQUER COATING ON WOOD

Refer BKKH16008147

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TEST REPORT

Number: BKKH17002819

Test conducted:

- 4 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)	<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)

Tested components:

(1) =	White Sawdust 5%	Refer	BKKH16007214
(2) =	ROPE COTTON	Refer	BKKH16016708
(3) =	GREEN SAWDUST (375C)	Refer	BKKH16017877
(4) =	Solid Wood	Refer	BKKH17000142
(5) =	CREAM PLASTIC JOINT	Refer	BKKH17003197

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TEST REPORT

Number: BKKH17002819

Test conducted:

5 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>	<u>Limit</u>	<u>NPR</u>
	<u>(%, w/w)</u>				<u>(%, w/w)</u>	<u>(%, w/w)</u>	<u>(%, w/w)</u>	<u>(%, w/w)</u>
	(1)	(2)	(3)	(4)				
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	0.0015	0.003	0.1	0.1
Diethyl hexyl Phthalate (DEHP)	ND	ND	ND	ND	0.0015	0.003	0.1	0.1
Benzyl butyl Phthalate (BBP)	ND	ND	ND	ND	0.0015	0.003	0.1	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND	ND	ND	0.0015	0.009	0.1	0.1
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	ND	0.0015	0.003	0.1	--
Di-iso-decyl Phthalate (DIDP)	ND	ND	ND	ND	0.0015	0.009	0.1	--
Di-isobutyl phthalate (DIBP)	ND	ND	ND	ND	0.0015	0.009	--	0.1
Di-n-pentyl phthalate (DnPP)	ND	ND	ND	ND	0.0015	0.009	--	0.1
Di-n-hexyl phthalate (DnHP)	ND	ND	ND	ND	0.0015	0.009	--	0.1
Di-cyclohexyl phthalate (DCHP)	ND	ND	ND	ND	0.0015	0.009	--	0.1
Diisooctyl phthalate (DIOP)	ND	ND	ND	ND	0.0015	0.009	--	--

Remark : The above limit was quoted according to US Consumer Product Safety Improvement Act 2008 for prohibition on sale of certain products containing specified phthalates.

NPR = Notice of proposed rulemaking
LOD = Limit of Detection
LOQ = Limit of Quantitation
ND = Not detected (Less than LOD)
%, w/w = Percentage weight by weight

Tested components:

(1) =	White Sawdust 5%	Refer	BKKH16007214
(2) =	LACQUER COATING ON WOOD	Refer	BKKH16008147
(3) =	GREEN SAWDUST (375C)	Refer	BKKH16017877
(4) =	CREAM PLASTIC JOINT	Refer	BKKH17003197

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Test conducted:

6 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)			
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	0.0015	0.003	0.1
Diethyl hexyl Phthalate (DEHP)	ND	ND	ND	ND	0.0015	0.003	0.1
Benzyl butyl Phthalate (BBP)	ND	ND	ND	ND	0.0015	0.003	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND	ND	ND	0.0015	0.009	0.1
Di-octyl Phthalate (DNOP)	ND	ND	ND	ND	0.0015	0.003	0.1
Di-iso-decyl Phthalate (DIDP)	ND	ND	ND	ND	0.0015	0.009	0.1
Di-n-hexyl Phthalate (DnHP)	ND	ND	ND	ND	0.0015	0.003	0.1

Remark : LOD = Limit of Detection
 LOQ = Limit of Quantitation
 ND = Not detected (Less than LOD)
 %, w/w = Percentage weight by weight

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

Tested components:

(1) =	White Sawdust 5%	Refer	BKKH16007214
(2) =	LACQUER COATING ON WOOD	Refer	BKKH16008147
(3) =	GREEN SAWDUST (375C)	Refer	BKKH16017877
(4) =	CREAM PLASTIC JOINT	Refer	BKKH17003197

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TEST REPORT

Number: BKKH17002819

Test conducted:

7 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>LOD</u>	<u>LOQ</u>	<u>Limit</u>
	<u>mg/kg</u>	<u>mg/kg</u>	<u>mg/kg</u>	<u>mg/kg</u>
(1)	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)

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) = LACQUER COATING ON WOOD Refer BKKH16008147

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TEST REPORT

Number: BKKH17002819

Test conducted:

II Non-surface coating material (substrate)

<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>
(2)	ND	1	13	100
(3)	ND	1	13	100
(4)	<13	1	13	100
(5)	ND	1	13	100
(6)	ND	1	13	100

Remark: < = Less than
mg/kg = Milligram per kilogram = 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:

(2) =	White Sawdust 5%	Refer	BKKH16007214
(3) =	ROPE COTTON	Refer	BKKH16016708
(4) =	GREEN SAWDUST (375C)	Refer	BKKH16017877
(5) =	Solid Wood	Refer	BKKH17000142
(6) =	CREAM PLASTIC JOINT	Refer	BKKH17003197

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

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

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