

TEST REPORT

The report shall not be reproduced without written approval from Intertek
The results relate only to the item tested.

Number: BKKH19008711

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

Date: Aug 15, 2019

Sample description:

Quantity of sample:	One (1) set
Sample description:	Wooden toy
Date sample received:	July 05, 2019
Date information received:	August 13, 2019

Client Information:

One (1) set of submitted sample said to be WOODPECKER WALKER

Item Name:	WOODPECKER WALKER
Item Number:	5720



BKKH19008711

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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Conclusion:

<u>Tested samples</u>	<u>Standard</u>	<u>Result</u>
Submitted sample	U.S. ASTM F963-17 for Physical and mechanical tests excluding labelling requirement of clause 5	Pass
	U.S. ASTM F963-17 for Flammability test of materials other than textile materials	Pass
	U.S. ASTM F963-17 for Heavy elements Test	Pass
	<u>Standard - U.S. CFR title 16</u> (CPSC regulations) Part 1303 total Lead content	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 F963-17: Heavy metal</u>		
GRAY COATING ON WOOD	BKKH19007792S1	Jul 15, 2019
PINK COATING ON WOOD	BKKH19007790S1	Jul 15, 2019
BLUE COATING ON WOOD	BKKH19008028S1	Jul 18, 2019
WHITE ELASTIC	BKKH19008026S1	Jul 18, 2019
GRAY RUBBER RING	BKKH19008554	Jul 08, 2019
GRAY SAWDUST	BKKH19009003	Jul 19, 2019
<u>Lead in surface coating</u>		
GRAY COATING ON WOOD	BKKH19007792S1	Jul 15, 2019
PINK COATING ON WOOD	BKKH19007790S1	Jul 15, 2019
BLUE COATING ON WOOD	BKKH19008028S1	Jul 18, 2019
<u>Lead in substrate</u>		
SCREW (Black-Red)	BKKH19003504	Mar 19, 2019
WHITE ELASTIC	BKKH19008026S1	Jul 18, 2019
GRAY RUBBER RING	BKKH19008554	Jul 08, 2019
GRAY SAWDUST	BKKH19009003	Jul 19, 2019
<u>Phthalate content</u>		
GRAY COATING ON WOOD	BKKH19007792S1	Jul 15, 2019
WHITE ELASTIC	BKKH19008026S1	Jul 18, 2019
GRAY RUBBER RING	BKKH19008554	Jul 08, 2019
GRAY SAWDUST	BKKH19009003	Jul 19, 2019
PINK COATING ON WOOD	BKKH19007790S1	Jul 15, 2019
BLUE COATING ON WOOD	BKKH19008028S1	Jul 18, 2019



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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 10 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 : -

<u>Test</u>	<u>FHSA</u>	<u>Parameter</u>
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
Compression test	Section 1500.53(g)	30 lbf

<u>Clause</u>	<u>Testing items</u>	<u>Assessment</u>
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	P
4.12	Plastic film	P
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	P
4.18	Holes, clearance, and accessibility of mechanisms	P
4.19	Simulated protective devices	NA
4.20 (excluding 4.20.1 [▲])	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	NA
4.24	Squeeze toys	NA
4.25 (excluding 4.25.10, 4.25.11 [▲])	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	#
6	Instructional literature	P
7	Producer's markings - name of producer (toy) - address (toy)	Yes No

Remark : P = Pass NA = Not applicable

▲ = Tested items are not included in the TISI Accreditation

= No final packaging was submitted for testing.

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.

The producer's name was found on the toy. However as specified in clause 7.1 of ASTM F963-17, the final product or its packaging must also be marked with the address

Testing period : July 05, 2019 to August 05, 2019



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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.	P
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>Maximum sound pressure level (L_{AFmax})</u>	<u>Limit (db)</u>
WOODPECKER WALKER	78.6	85
<u>Tested component</u>	<u>Peak sound pressure level (L_{Cpeak})</u>	<u>Limit (db)</u>
WOODPECKER WALKER	98.4	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

Testing period : July 05, 2019 to August 05, 2019



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Test conducted:

3 Heavy Elements Analysis

As per clause 4.3.5.1(2) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, 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> (3)	<u>LOD</u> <u>mg/kg</u>	<u>LOQ</u> <u>mg/kg</u>	<u>Limit mg/kg</u>
Sol. Barium (Ba)	ND	ND	ND	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:

(1) = GRAY COATING ON WOOD	Refer	BKKH19007792S1
(2) = PINK COATING ON WOOD	Refer	BKKH19007790S1
(3) = BLUE COATING ON WOOD	Refer	BKKH19008028S1

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



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Number: BKKH19008711

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.

	<u>Result</u>					<u>LOD</u>	<u>LOQ</u>	<u>(16CFR1307)</u>	<u>NPR</u>
	<u>(%, w/w)</u>					<u>(%, w/w)</u>	<u>(%, w/w)</u>	<u>Limit (%, 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	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	0.0185	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) = GRAY COATING ON WOOD	Refer	BKKH19007792S1
(2) = WHITE ELASTIC	Refer	BKKH19008026S1
(3) = GRAY RUBBER RING	Refer	BKKH19008554
(4) = GRAY SAWDUST	Refer	BKKH19009003
(5) = PINK COATING ON WOOD	Refer	BKKH19007790S1



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Number: BKKH19008711

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)					
Dibutyl Phthalate (DBP)	ND	0.0015	0.0030	0.1	0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND	0.0015	0.0030	0.1	0.1
Benzyl butyl Phthalate (BBP)	ND	0.0015	0.0030	0.1	0.1
Di-iso-nonyl Phthalate (DINP)	ND	0.0015	0.0090	0.1	0.1
Di-n-octyl Phthalate (DNOP)	ND	0.0015	0.0030	--	--
Di-iso-decyl Phthalate (DIDP)	ND	0.0015	0.0090	--	--
Di-isobutyl phthalate (DIBP) [▲]	ND	0.0015	0.0030	0.1	0.1
Di-n-pentyl phthalate (DPENP) [▲]	ND	0.0015	0.0030	0.1	0.1
Di-n-hexyl phthalate (DHEXP) [▲]	ND	0.0015	0.0030	0.1	0.1
Di-cyclohexyl phthalate (DCHP) [▲]	ND	0.0015	0.0030	0.1	0.1
Diisooctyl phthalate (DIOP) [▲]	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
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Tested components:

(6) = BLUE COATING ON WOOD

Refer BKKH19008028S1



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Test conducted:

8 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>
	(1)	(2)	(3)	(4)	(5)	(%, w/w)	(%, w/w)	(%, w/w)
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	0.0185	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) = GRAY COATING ON WOOD	Refer	BKKH19007792S1
(2) = WHITE ELASTIC	Refer	BKKH19008026S1
(3) = GRAY RUBBER RING	Refer	BKKH19008554
(4) = GRAY SAWDUST	Refer	BKKH19009003
(5) = PINK COATING ON WOOD	Refer	BKKH19007790S1



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Number: BKKH19008711

Test conducted:

Phthalate content test[▲]

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

	<u>Result</u> <u>(%, w/w)</u>	<u>LOD</u> <u>(%, w/w)</u>	<u>LOQ</u> <u>(%, w/w)</u>	<u>Limit</u> <u>(%, w/w)</u>
(6)				
Dibutyl Phthalate (DBP)	ND	0.0015	0.0030	0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND	0.0015	0.0030	0.1
Benzyl butyl Phthalate (BBP)	ND	0.0015	0.0030	0.1
Di-iso-nonyl Phthalate (DINP)	ND	0.0015	0.0090	0.1
Diocetyl Phthalate (DNOP)	ND	0.0015	0.0030	0.1
Di-iso-decyl Phthalate (DIDP)	ND	0.0015	0.0090	0.1
Di-n-hexyl Phthalate (DnHP)	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) = BLUE COATING ON WOOD Refer BKKH19008028S1



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Number: BKKH19008711

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

<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
(2)	ND	2	13	90
(3)	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) = GRAY COATING ON WOOD Refer BKKH19007792S1
- (2) = PINK COATING ON WOOD Refer BKKH19007790S1
- (3) = BLUE COATING ON WOOD Refer BKKH19008028S1



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Number: BKKH19008711

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>
(4)	ND	1	13	100
(5)	ND	1	13	100
(6)	<13	1	13	100
(7)	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:

(4) = WHITE ELASTIC	Refer	BKKH19008026S1
(5) = GRAY RUBBER RING	Refer	BKKH19008554
(6) = GRAY SAWDUST	Refer	BKKH19009003
(7) = SCREW (Black-Red)	Refer	BKKH19003504

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

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

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