

## TEST REPORT

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

Number: BKKH19012536

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

Date: Oct 01, 2019

### Sample description:

Quantity of sample: One (1) set  
Sample description: Wooden toy  
Date information received: September 18, 2019

### Client Information:

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

Item Name: TEA SET  
Item Number: 3604



BKKH19012536

### Tests conducted:

As requested by the applicant, for details please refer to attached pages.

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For and on behalf of :  
Intertek Testing Services (Thailand) Ltd.,  
Hardlines Laboratory

*Ladtaka*

Ladtaka Wongwiboonporn  
Laboratory Manager  
Hardlines Department

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### Conclusion:

<u>Tested samples</u>	<u>Standard</u>	<u>Result</u>
Submitted samples	EN71-3 : 2019	Pass**
Migration of certain elements		

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### Note:

\*\*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>
SOLID WOOD	BKKH19008023S1	Jul 15, 2019
LACQUER COATING ON WOOD	BKKH19007792S1	Jul 15, 2019
LIGHT GREEN COATING ON WOOD	BKKH19008312S1	Jul 15, 2019
LIGHT GREEN FRIEZE	BKKH19011699	Sep 13, 2019
ORANGE SAWDUST	BKKH19008027S1	Jul 18, 2019
SAWDUST WOOD	BKKH19008023S1	Jul 15, 2019
WHITE CORD	BKKH19010259	Aug 19, 2019
YELLOW FRIEZE	BKKH19011701	Sep 12, 2019
YELLOW SAWDUST	BKKH19008027S1	Jul 18, 2019

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Number: BKKH19012536

Test conducted:

1 19 Toxic elements migration test

(A) Test result

With reference to EN 71-3: 2019. Determined by ICP-MS, LC-ICP-MS and GC-MS.

Category (III): Scraped-off toy material

Element (Soluble)	Result (mg/kg)					LOD	LOQ	Limit
	(1)	(2)	(3)	(4)	(5)	(mg/kg)	(mg/kg)	(mg/kg)
Aluminium (Al)	ND	ND	229	ND	<5	0.5	5	70000
Antimony (Sb)	ND	ND	ND	ND	ND	0.2	5	560
Arsenic (As)	ND	ND	ND	ND	ND	0.01	0.1	47
Barium (Ba)	<5	ND	ND	ND	ND	0.1	5	18750
Boron (B)	ND	ND	ND	ND	24	0.01	5	15000
Cadmium (Cd)	ND	ND	ND	ND	<0.1	0.01	0.1	17
Chromium (Cr) Δ	0.138	<0.04	0.562	0.047	0.069	0.01	0.04	-
Chromium (III) (Cr III)	0.138	NC	0.562	NC	0.069	-	-	460
Chromium (VI) (Cr VI)	<0.053#(S)	NC	<0.053#(S)	NC	<0.053#(S)	-	0.053	0.053
Cobalt (Co)	ND	ND	ND	ND	ND	0.01	1	130
Copper (Cu)	ND	ND	ND	ND	ND	0.5	5	7700
Lead (Pb)	<1	ND	ND	ND	2	0.1	1	23
Manganese (Mn)	39	6	13	ND	37	0.01	5	15000
Mercury (Hg)	ND	ND	ND	ND	ND	0.2	1	94
Nickel (Ni)	ND	ND	ND	ND	ND	0.1	5	930
Selenium (Se)	ND	ND	ND	ND	ND	0.1	5	460
Strontium (Sr)	10	ND	ND	ND	9	0.1	5	56000
Tin (Sn) ΔΔ	ND	ND	ND	ND	ND	0.1	1	180000
Organic tin	NC	NC	NC	NC	NC	1	3	12
Zinc (Zn)	<5	ND	12	ND	8	0.5	5	46000

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Test conducted:

19 Toxic elements migration test

(A) Test result

With reference to EN 71-3: 2019. Determined by ICP-MS, LC-ICP-MS and GC-MS.

Category (III): Scraped-off toy material

Element (Soluble)	Result (mg/kg)				LOD	LOQ	Limit
	(6)	(7)	(8)	(9)	(mg/kg)	(mg/kg)	(mg/kg)
Aluminium (Al)	280	ND	ND	ND	0.5	5	70000
Antimony (Sb)	ND	8	ND	ND	0.2	5	560
Arsenic (As)	ND	ND	ND	ND	0.01	0.1	47
Barium (Ba)	ND	ND	ND	117	0.1	5	18750
Boron (B)	16	ND	ND	26	0.01	5	15000
Cadmium (Cd)	<0.1	ND	ND	<0.1	0.01	0.1	17
Chromium (Cr) Δ	0.121	ND	<0.04	<0.04	0.01	0.04	-
Chromium (III) (Cr III)	0.121	NC	NC	NC	-	-	460
Chromium (VI) (Cr VI)	<0.053#(S)	NC	NC	NC	-	0.053	0.053
Cobalt (Co)	ND	ND	ND	ND	0.01	1	130
Copper (Cu)	ND	ND	ND	ND	0.5	5	7700
Lead (Pb)	1	ND	ND	2	0.1	1	23
Manganese (Mn)	38	ND	ND	45	0.01	5	15000
Mercury (Hg)	ND	ND	ND	ND	0.2	1	94
Nickel (Ni)	ND	ND	ND	ND	0.1	5	930
Selenium (Se)	ND	ND	ND	ND	0.1	5	460
Strontium (Sr)	7	ND	ND	11	0.1	5	56000
Tin (Sn) ΔΔ	ND	ND	ND	ND	0.1	1	180000
Organic tin	NC	NC	NC	NC	1	3	12
Zinc (Zn)	23	ND	ND	10	0.5	5	46000

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Test conducted:

Remark: mg/kg = Milligram per kilogram = ppm  
< = Less than  
NC = Not conducted  
ND = Not detected (Less than LOD)  
LOD = Limit of Detection  
LOQ = Limit of Quantitation  
(S) = Test item has been tested by subcontractor approved by Intertek.

- The new lead migration limit [(2.0mg/kg for Category (I), 0.5mg/kg for category (II) and 23 mg/kg for Category (III)] was quoted from directive (EU) 2017/738 amending 2009/48/EC effective from 28 October 2018.

- The new chromium (VI) migration limit (0.053mg/kg) for Category (III) was quoted from directive (EU) Directive 2018/725 amending 2009/48/EC effective from 18 November 2019.

Δ= If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium (III) and Chromium (VI).

ΔΔ = If the migration of total Tin is below the maximum limit for Organic Tin, it can be inferred that the material complies with the requirements for Organic Tin.

- Organic tin test result was expressed as tributyl tin.

- As per EC decision 2013/492/EU of 7 October 2013 and in accordance with Court's Order of 15 May 2013 in case T-198/12R, the European Commission authorizes that the national provisions notified by the Federal Republic of Germany concerning limit values for Antimony(Sb)(60mg/kg), Arsenic (As)(25mg/kg), Mercury (Hg)(60mg/kg), Barium (Ba)(1000mg/kg) and Lead (Pb)(90mg/kg) in toys be maintained beyond 20 July 2013.

# = Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).

\* = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

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Test conducted:

Tested components:

	Report	Date
(1) SOLID WOOD	REFER BKKH19008023S1	Jul 15, 2019
(2) LACQUER COATING ON WOOD	REFER BKKH19007792S1	Jul 15, 2019
(3) LIGHT GREEN COATING ON WOOD	REFER BKKH19008312S1	Jul 15, 2019
(4) LIGHT GREEN FRIEZE	REFER BKKH19011699	Sep 13, 2019
(5) ORANGE SAWDUST	REFER BKKH19008027S1	Jul 18, 2019
(6) SAWDUST WOOD	REFER BKKH19008023S1	Jul 15, 2019
(7) WHITE CORD	REFER BKKH19010259	Aug 19, 2019
(8) YELLOW FRIEZE	REFER BKKH19011701	Sep 12, 2019
(9) YELLOW SAWDUST	REFER BKKH19008027S1	Jul 18, 2019

Note:

1. The toxic elements of EN71-3 was not conducted on the above components of samples. Applicant claimed the components were tested on our previous test report.
2. According to European standard on safety of toys EN71-3. As received, the test portion of the components are less than 10 mg, therefore such components were not tested for toxic.

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Test conducted:

(B) Categories of various toy materials

Category I: dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. the material can be ingested. contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or Sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone , leather and other materials).

Comment:

When tested as specified, the results of the tested components MET the 19 toxic elements limits of the European Council Directive 2009/48/EC and amendment 2012/7/EU on the Safety of Toys.

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

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