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TEST REPORT

Number: BKKH15014550

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

Date: Dec 29, 2015

Sample description:

Quantity of sample:	One (1) set
Sample description:	Wooden toy
Date sample received:	November 23, 2015
Date Information received:	December 29, 2015

Client Information:

One (1) set of submitted sample said to be TABLE & CHAIR-BLACK/TABLE BLACK

Item Name:	TABLE & CHAIR-BLACK/TABLE BLACK
Item Number:	8703/8704



Tests conducted:

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

Authorized by :

For Intertek Testing Services (Thailand)

Ladtaka Wongwiboonporn

Laboratory Manager

Hardlines Department

Intertek Testing Services (Thailand) Ltd.

1285/5 Prachachuen Road, Wong-Sawang, Bangsue, Bangkok 10800 Thailand

Tel.: (662) 837-2999 Fax: (662) 837-2936

E-mail Address: tfh.thailand@intertek.com

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Conclusion:

<u>Tested samples</u>	<u>Standard</u>	<u>Result</u>
Submitted samples	EN71-1 : 2014 Mechanical and physical properties excluding requirement of clause 6	Pass*/#
	EN71-2 : 2011 + A1 : 2014 Flammability test	Pass#
	EN71-3 : 2013 + A1 : 2014 Migration of certain elements	Pass**/#

Remark: * = Please draw your attention on clause 7 in test report.

Comment: #The testing scope of the following standards was not applicable to the submitted samples.
However, the test results of the samples met the related requirements as stated in this report.

Note: ** = The components as below was comply to EN71-3 : 2013 + A1 : 2014.

<u>Components</u>	<u>Report No.</u>	<u>Date</u>
MDF WOOD	BKKH14015218	Nov 27, 2014
5290163 : White-Cream Rubber	BKKH14015905S1	Dec 17, 2014
Solid wood	BKKH15014517	Nov 20, 2015
Plywood	BKKH15014517	Nov 20, 2015
5329128 Brown Coating On Wood	BKKH15014516	Nov 27, 2015
5023010 Black Sawdust	BKKH15014512	Nov 27, 2015

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TEST REPORT

Number: BKKH15014550

Test conducted:

1 Mechanical and Physical Test

As per European Standard on Safety of toys EN71-1 : 2014.

Applicant's specified age group for testing : For age 3-6 years.

Clause	Requirements	Results
4	General requirements	
4.1	Material cleanliness	Pass
4.2	Assembly	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
4.15.4	Toys not propelled by a child	Pass
4.16	Heavy immobile toys	Pass
7	Warnings, markings and instructions for use	See remark
7.1	General	#

Note : The above clauses appropriate to this item. Those clauses not referred to were considered not applicable.

= No packaging was submitted for testing. Hence, clause 7.1 General requirement for Warnings, markings and instructions for use was not assessed.

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Test conducted:

Remark :

Below are additional information according to the Toy Safety Directives 2009/48/EC requirement.

These information also appears as a note within the EN71 but are not standard requirements:

1. Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the product itself. In addition, toys or packagings shall also bear the CE-marking.

After checking, it was found that:

- Manufacturer's name was on the packaging & toy.
- Manufacturer's address was on the packaging.
- Importer's name was missed on the packaging & toy.
- Importer's address was missed on the packaging & toy.
- Product identification code was on the packaging.
- CE-marking was on the packaging.
- CE-marking was in correct format.

Testing period : November 23, 2015 to December 28, 2015

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TEST REPORT

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Test conducted:

2 Flammability Test

As per European Standard on Safety of Toys EN71-2 : 2011 + A1 : 2014.

<u>Clause</u>	<u>Testing items</u>	<u>Assessment</u>
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Remark : P = Pass NA = Not applicable

Testing period : November 23, 2015 to November 25, 2015

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TEST REPORT

Number: BKKH15014550

Test conducted:

3 19 Toxic elements migration test

(A) Test result

With reference to BS EN 71-3: 2013 +A1 : 2014. Determined by ICP-MS and GC-MS.

Category (III): Scraped-off toy material

<u>Element (Soluble)</u>	<u>Result (mg/kg)</u>					<u>LOD</u>	<u>LOQ</u>	<u>Limit</u>
	(1)	(2)	(3)	(4)	(5)	(mg/kg)	(mg/kg)	(mg/kg)
Aluminium (Al)	55	<5	<5	<5	16	1	5	70000
Antimony (Sb)	ND	ND	ND	ND	ND	1	5	560
Arsenic (As)	0.13	0.38	ND	0.21	ND	0.02	0.1	47
Barium (Ba)	10	ND	ND	<5	411	1	5	18750
Boron (B)	10	ND	ND	43	<5	1	5	15000
Cadmium (Cd)	<0.1	ND	<0.1	<0.1	<0.10	0.02	0.1	17
Chromium (Cr) Δ	0.118	0.005	0.025	0.041	0.095	0.001	0.005	-
Chromium (III) (Cr III) ▲	NC	NC	NC	NC	NC	-	-	460
Chromium (VI) (Cr VI) ▲	NC	NC	NC	NC	NC	-	-	0.2
Cobalt (Co)	ND	ND	ND	ND	ND	0.2	1	130
Copper (Cu)	<5	ND	ND	ND	ND	1	5	7700
Lead (Pb)	<1	ND	1	11	ND	0.2	1	160
Manganese (Mn)	242	<5	40	46	6	1	5	15000
Mercury (Hg)	ND	ND	ND	ND	ND	0.2	1	94
Nickel (Ni)	<5	ND	ND	ND	ND	1	5	930
Selenium (Se)	ND	ND	ND	ND	ND	1	5	460
Strontium (Sr)	18	<5	22	14	<5	1	5	56000
Tin (Sn) ΔΔ	<1	ND	3	<1	ND	0.2	1	180000
Organic tin	NC	NC	NC	NC	NC	1	3	12
Zinc (Zn)	8	319	8	9	8	1	5	46000

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TEST REPORT

Number: BKKH15014550

Test conducted:

19 Toxic elements migration test

(A) Test result

With reference to BS EN 71-3: 2013 +A1 : 2014. Determined by ICP-MS and GC-MS.

Category (III): Scraped-off toy material

<u>Element (Soluble)</u>	<u>Result (mg/kg)</u>	<u>LOD</u>	<u>LOQ</u>	<u>Limit</u>
	(6)	(mg/kg)	(mg/kg)	(mg/kg)
Aluminium (Al)	ND	1	5	70000
Antimony (Sb)	ND	1	5	560
Arsenic (As)	ND	0.02	0.1	47
Barium (Ba)	5	1	5	18750
Boron (B)	17	1	5	15000
Cadmium (Cd)	<0.1	0.02	0.1	17
Chromium (Cr) Δ	0.073	0.001	0.005	-
Chromium (III) (Cr III)▲	NC	-	-	460
Chromium (VI) (Cr VI)▲	NC	-	-	0.2
Cobalt (Co)	<1	0.2	1	130
Copper (Cu)	ND	1	5	7700
Lead (Pb)	4	0.2	1	160
Manganese (Mn)	59	1	5	15000
Mercury (Hg)	ND	0.2	1	94
Nickel (Ni)	ND	1	5	930
Selenium (Se)	ND	1	5	460
Strontium (Sr)	7	1	5	56000
Tin (Sn) ΔΔ	ND	0.2	1	180000
Organic tin	NC	1	3	12
Zinc (Zn)	13	1	5	46000

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TEST REPORT

Number: BKKH15014550

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
▲ = Tested items are not included in the TISI Accreditation

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).

$\Delta\Delta$ = 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) MDF WOOD	REFER BKKH14015218	Nov 27, 2014
(2) 5290163 : White-Cream Rubber	REFER BKKH14015905S1	Dec 17, 2014
(3) Solid wood	REFER BKKH15014517	Nov 20, 2015
(4) Plywood	REFER BKKH15014517	Nov 20, 2015
(5) 5329128 Brown Coating On Wood	REFER BKKH15014516	Nov 27, 2015
(6) 5023010 Black Sawdust	REFER BKKH15014512	Nov 27, 2015

Note:

1. The toxic elements of EN71-3(2013) 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 (2013). As received, the test portion of the components are less than 10 mg, therefore such components were not tested for toxic.
3. As requested by the applicant, EN71-3 (2013) test was conducted only on components listed in this report. Other components were not tested.

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TEST REPORT

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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/ST

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