

TEST REPORT

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The results relate only to the item tested.

Number: BKKH19007949

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

Date: Aug 14, 2019

Sample description:

Quantity of sample:	One (1) set
Sample description:	ROCKING CHAIR
Date sample received:	June 21, 2019
Date information received:	August 13, 2019

Client Information:

One (1) set of submitted sample said to be ROCKING CHAIR

Item Name:	ROCKING CHAIR
Item Number:	8603



BKKH19007949

Tests conducted:

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

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

Ladtaka W.

Ladtaka Wongwiboonporn
Laboratory Manager
Hardlines Department

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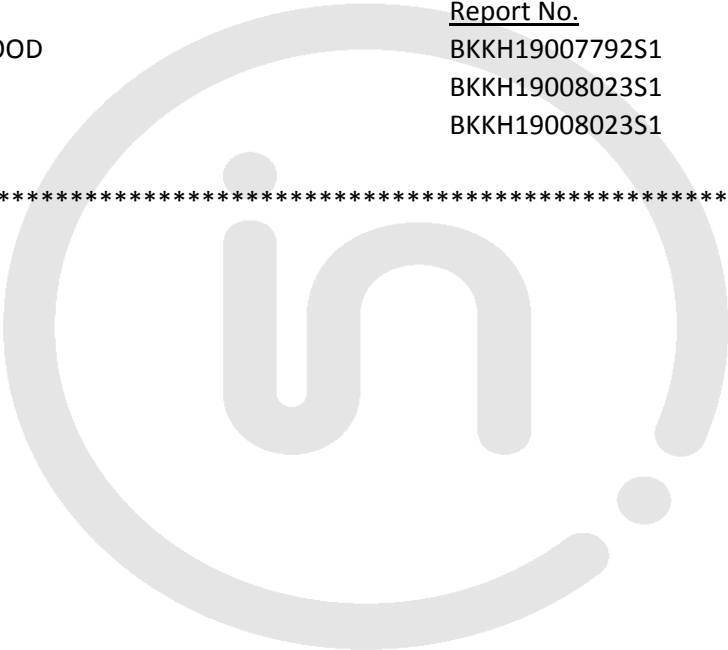
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Conclusion:

<u>Tested samples</u>	<u>Standard</u>	<u>Result</u>
Submitted samples	FIRA/FRQG C002	Pass
	EN71-3 : 2019	Pass**
	Migration of certain elements	

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>
LACQUER COATING ON WOOD	BKKH19007792S1	Jul 15, 2019
SOLID WOOD	BKKH19008023S1	Jul 15, 2019
PLYWOOD	BKKH19008023S1	Jul 15, 2019



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Test conducted:

- 1 FIRA/FRQG C002 Strength, stability and durability requirements for Children's Domestic Seating

Test information of FIRA/FRQG C002:

Test level	Applicant's specified testing age
2	3 to 8 years

Clause	Requirement	Result
3.1	General Seating which include other features, such as tables and storage shall also meet the appropriate requirements from FIRA/FRQG C003: 2016 and FIRA/FRQG C004: 2016.	NA
3.2	Safety requirements All seating shall satisfy the applicable general safety requirements as defined in FIRA/FRQG C001: 2016.	P
3.3	Performance requirements After the product has been tested in accordance with clause 4, none of the following defects shall have occurred: a) The seating no longer fulfils the stability requirements; b) Any fracture of any member, joint or component, including seat suspensions and castors; c) Any fracture or cracking through the full thickness of any part of a structural shell; d) Any loosening, shown to be permanent of joints intended to be rigid; e) Any deformation or cracks that will adversely affect the performance of any part of the sample; f) Any impairment of the operation of any mechanical part.	P
4.1	Moisture content of timber components Before testing, parts made of timber products shall be checked with an electric moisture meter to ensure that the moisture content is between 8% and 12%. If the moisture content is outside this range the sample shall be placed in a suitable environment until the moisture content is between 8% and 12%.	P
4.2	Inspection before testing	P
4.3	Procedure All tests shall be carried out at the same test level (see Table 1), and in the sequence given in Table 1	See Teble 1



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Test conducted:

Table 1 - Tests

Test Items	Test Standard & Clause	Loading	Test Level	Result
			2	
1. Forwards overturning	BS EN 1022: 2005 - 6.2 & 6.3	Seat load: N Horizontal force: N	500 20	P
2. Sideways stability without arms	BS EN 1022: 2005 - 6.4	Seat load: N Horizontal force: N	500 20	NA
3. Sideways stability with arms	BS EN 1022: 2005 - 6.5	Arm load: N Seat load: N Horizontal force: N	300 210 20	P
4. Rearwards stability	BS EN 1022: 2005 - 6.6	Seat load: N Back force: N	500 130	P
5. Seat and back static load test	BS EN 1728: 2012 - 6.4 & 7.3	Seat: force N Back: force N 10 times	1000 250	P
6. Seat front edge static load test	BS EN 1728: 2012 - 6.5 & 7.4	Force, N 10 times	1000	P
7. Foot rest static load test	BS EN 1728: 2012 - 6.8 & 7.8	Force, N 10 times	1000	NA
8. Arm sideways static load test	BS EN 1728: 2012 - 6.10 & 7.7	Force, N 10 times	350	P
9. Arm downwards static load test	BS EN 1728: 2012 - 6.11, 7.5 & 7.6	Force, N 10 times	350	P
10. Seat and back fatigue test	BS EN 1728: 2012 - 6.17 & 7.9	Cycles Seat: 750 N Back: 250 N	10000	P
11. Seat front edge fatigue test	BS EN 1728: 2012 - 6.18	Cycles Force: 750 N	5000	P
12. Arm fatigue test	BS EN 1728: 2012 - 6.20 & 7.10	Cycles Force: 200 N	5000	P
13. Leg forward static load test	BS EN 1728: 2012 - 6.15	Force, N (max.) Seat load, N 10 times	300 750	P
14. Leg sideways static load test	BS EN 1728: 2012 - 6.16	Force, N (max.) Seat load, N 10 times	250 750	P
15. Seat impact test	BS EN 1728: 2012 - 6.24	Drop height, mm, 10 times	140	P
16. Additional seat impact test	Annex A	Drop height, mm, 10 times	100	NA
17. Back impact test	BS EN 1728: 2012 - 6.25	Height of fall, mm 10 times	120	P
18. Drop Test from the height of a table	BS EN 1728 - 6.27.3	Drop height 10 times	150	NA

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Test conducted:

Annex B - Additional requirements for seating with unusual features

Clause	Requirement	Result
A.1 Rocking Chairs	<p>In addition to the appropriate requirements contained within the main document, rocking chairs shall be assessed in accordance with BS EN 1022:2005 Clause 7.4, with the following test loads:</p> <p>A.1.1 Seating for use by children from 3 years – 6 years old Load in chair to be three loading discs as specified in BS EN 1022:2005 Clause 4.4</p> <p>Note: Where appropriate the test discs defined in BS EN 1022:2005 may be substituted for test disks with a smaller diameter to allow testing to be carried out on chairs with a small seat area.</p> <p>A.1.2 Seating for use by children from 6 years – 12 years old Load in chair to be six loading discs as specified in BS EN 1022:2005 Clause 4.4</p> <p>A.1.3 Seating for use by children from 3 years – 12 years old Load in chair to be six loading discs as specified in BS EN 1022:2005 Clause 4.4</p>	P
A.2 Swing Seats	<p>Swing seats shall be tested in accordance with the following tests from Table 1, at the appropriate test level: Test numbers: 1, 5, 6, 8, 10, 13, 14, 15, 16 & 17.</p> <p>In addition swing seats should feature a means of limiting amount of swing to prevent overturning.</p>	NA
A.3 Hammocks	<p>Hammocks designed to be suspended from or between trees, or similar user supplied supports are not covered by this standard due to the risk posed by failure of the support mechanism.</p> <p>Hammocks should be accompanied by their own supporting frame. Due to the nature of hammocks stability testing is not appropriate.</p> <p>The height of the main sitting/lying surface above the ground shall not exceed 600 mm.</p> <p>Hammocks shall be tested, at the appropriate test level, to the following clauses: Test numbers: 5 (seat static load only), 10 (seat fatigue only), 15 & 16.</p> <p>The loading point will be the geometrical centre of the hammock.</p> <p>Hammocks shall be supplied with the following additional warnings: - Children should be subject to adult supervision at all times when using this product. - Beware of the risk of tipping</p>	NA

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Test conducted:

Clause	Requirement	Result
A.4 Reclining Chairs	<p>In addition to the appropriate requirements contained within the main document, reclining chairs shall be assessed in accordance with BS EN 1022:2005 Clause 7.7, with the following test loads:</p> <p>A.1.1 Seating for use by children from 3 years – 6 years old Load in chair to be one loading discs on seat and three loading discs on the back. Loading discs to be as specified in BS EN 1022:2005 Clause 4.4 Note: Where appropriate the test discs defined in BS EN 1022:2005 may be substituted for test disks with a smaller diameter to allow testing to be carried out on chairs with a small seat area.</p> <p>A.1.2 Seating for use by children from 6 years – 12 years old Load in chair to be two loading discs on seat and five loading discs on the back. Loading discs to be as specified in BS EN 1022:2005 Clause 4.4</p> <p>A.1.3 Seating for use by children from 3 years – 12 years old Load in chair to be two loading discs on seat and five loading discs on the back. Loading discs to be as specified in BS EN 1022:2005 Clause 4.4</p>	NA
A.5 Office Style Seating – Tilting Chairs	<p>In addition to the appropriate requirements contained within the main document, reclining chairs shall be assessed in accordance with BS EN 1022:2005 Clause 7.7, with the following test loads:</p> <p>A.1.1 Seating for use by children from 3 years – 6 years old Load in chair to be five loading discs as specified in BS EN 1022:2005 Clause 4.4 Note: Where appropriate the test discs defined in BS EN 1022:2005 may be substituted for test disks with a smaller diameter to allow testing to be carried out on chairs with a small seat area.</p> <p>A.1.2 Seating for use by children from 6 years – 12 years old Load in chair to be nine loading discs as specified in BS EN 1022:2005 Clause 4.4</p> <p>A.1.3 Seating for use by children from 3 years – 12 years old Load in chair to be nine loading discs as specified in BS EN 1022:2005 Clause 4.4.</p>	NA

Abbreviation : P = Pass NA = Not Applicable

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Test conducted:

2 19 Toxic elements migration test

(A) Test result

With reference to EN 71-3: 2019. Determine by ICP-MS, LC-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)	(mg/kg)	(mg/kg)	(mg/kg)
Aluminium (Al)	ND	ND	ND	1	5	70000
Antimony (Sb)	ND	ND	ND	1	5	560
Arsenic (As)	ND	ND	ND	0.02	0.1	47
Barium (Ba)	ND	<5	<5	1	5	18750
Boron (B)	ND	ND	13	1	5	15000
Cadmium (Cd)	ND	ND	0.2	0.02	0.1	17
Chromium (Cr) Δ	<0.04	0.138	<0.04	0.001	0.005	-
Chromium (III) (Cr III)	NC	0.138	NC	-	-	460
Chromium (VI) (Cr VI)	NC	<0.053# ^(S)	NC	-	0.053	0.053
Cobalt (Co)	ND	ND	ND	0.2	1	130
Copper (Cu)	ND	ND	ND	1	5	7700
Lead (Pb)	ND	<1	<1	0.2	1	23
Manganese (Mn)	6	39	42	1	5	15000
Mercury (Hg)	ND	ND	ND	0.2	1	94
Nickel (Ni)	ND	ND	ND	1	5	930
Selenium (Se)	ND	ND	ND	1	5	460
Strontium (Sr)	ND	10	7	1	5	56000
Tin (Sn) ΔΔ	ND	ND	ND	0.2	1	180000
Organic tin	NC	NC	NC	1	3	12
Zinc (Zn)	ND	<5	16	1	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) LACQUER COATING ON WOOD	REFER BKKH19007792S1	Jul 15, 2019
(2) SOLID WOOD	REFER BKKH19008023S1	Jul 15, 2019
(3) PLYWOOD	REFER BKKH19008023S1	Jul 15, 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/LW

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