

# TEST REPORT

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

Number: BKKH19016369

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

Issued Date: Jan 23, 2020

### Sample description:

|                            |                   |
|----------------------------|-------------------|
| Quantity of sample:        | One (1) set       |
| Sample description:        | Wooden toy        |
| Date sample received:      | December 03, 2020 |
| Date information received: | January 16, 2020  |

### Client Information:

One (1) set of submitted sample said to be REFRIGERATOR

Item Name: REFRIGERATOR  
Item Number: 3621



BKKH19016369

\*\*\*\*\*  
**Test conducted:**

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

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

  
Ladtaka Wongwiboonporn  
Laboratory Manager  
Hardlines Department

**TEST REPORT**

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



Number: BKKH19016369

**Conclusion:**

| <u>Tested samples</u> | <u>Standard</u>   | <u>Result</u> |
|-----------------------|---|---------------|
| Submitted samples     | EN71-1 : 2014+A1:2018<br>Mechanical and physical properties | Pass          |
|                       | EN71-2 : 2011 + A1 : 2014<br>Flammability test              | Pass          |
|                       | EN71-3 : 2019<br>Migration of certain elements              | Pass**        |

\*\*\*\*\*

**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 |
| MDF WOOD                    | BKKH19008023S1    | Jul 15, 2019 |
| HARD BOARD                  | BKKH19008023S1    | Jul 15, 2019 |
| LIGHT BROWN COATING ON WOOD | BKKH20000021      | Jan 15, 2020 |
| WHITE ELASTIC               | BKKH19008026S1    | Jul 18, 2019 |
| BLACK COATING ON WOOD       | BKKH19007793S1    | Jul 15, 2019 |
| RED COATING ON WOOD         | BKKH19007790S1    | Jul 15, 2019 |
| BROWN COATING ON WOOD       | BKKH19007791S1    | Jul 15, 2019 |

\*\*\*\*\*



# TEST REPORT

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



Number: BKKH19016369

Test conducted:

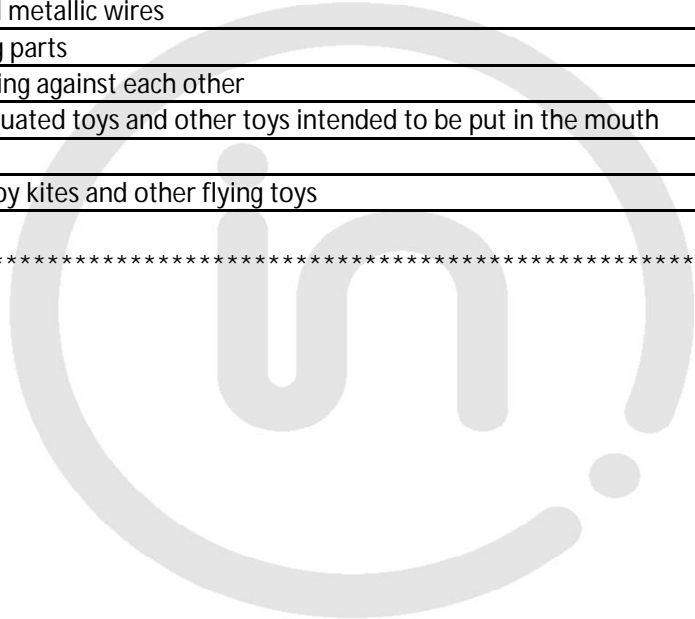
1 Mechanical and Physical Test<sup>▲</sup>

Test standard: European Standard on Safety of toys EN71-1 : 2014 + A1 : 2018

Applicant's specified testing age : For age over 3 months.

| Clause | Requirements   | Assessment |
|--------|--|------------|
| 4      | General requirements   |            |
| 4.1    | Material cleanliness   | P          |
| 4.2    | Assembly   | P          |
| 4.3    | Flexible plastic sheeting  | NA         |
| 4.4    | Toy bags   | NA         |
| 4.5    | Glass  | NA         |
| 4.6    | Expanding materials  | NA         |
| 4.7    | Edges  | P          |
| 4.8    | Points and metallic wires  | P          |
| 4.9    | Protruding parts   | NA         |
| 4.10   | Parts moving against each other                                    | P          |
| 4.11   | Mouth actuated toys and other toys intended to be put in the mouth | NA         |
| 4.12   | Balloons   | NA         |
| 4.13   | Cords of toy kites and other flying toys                           | NA         |

\*\*\*\*\*



**TEST REPORT**

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

Number: BKKH19016369

Test conducted:

| Clause | Requirements   | Assessment |
|--------|--|------------|
| 4.14   | Enclosures   | P          |
| 4.15   | Toys intended to bear the mass of a child  | NA         |
| 4.16   | Heavy immobile toys  | P          |
| 4.17   | Projectiles  | NA         |
| 4.18   | Aquatic toys and inflatable toys   | NA         |
| 4.19   | Percussion caps specifically designed for use in toys and toys using percussion caps | NA         |
| 4.20   | Acoustics  | NA         |
| 4.21   | Toys containing non-electrical heat source   | NA         |
| 4.22   | Small balls  | NA         |
| 4.23   | Magnets  | NA         |
| 4.24   | Yo-yo balls  | NA         |
| 4.25   | Toys attached to food  | NA         |
| 4.26   | Toy Disguise Costumes  | NA         |
| 4.27   | Flying toys  | NA         |
| 5      | Toys intended for children under 36 months   |            |
| 5.1    | General requirements for children under 36 months                                    | NA         |
| 5.2    | Soft-filled toys and soft-filled parts of a toy                                      | NA         |
| 5.3    | Plastic sheeting   | NA         |
| 5.4    | Cords, chains and electrical cables in toys  | NA         |
| 5.5    | Liquid filled toys   | NA         |
| 5.6    | Speed limitation of electrically-driven ride-on toys                                 | NA         |
| 5.7    | Glass and porcelain  | NA         |
| 5.8    | Shape and size of certain toys   | NA         |
| 5.9    | Toys comprising monofilament fibres  | NA         |
| 5.10   | Small balls  | NA         |
| 5.11   | Play figures   | NA         |
| 5.12   | Hemispheric-shaped toys  | NA         |
| 5.13   | Suction cups   | NA         |
| 5.14   | Straps intended to be worn fully or partially around the neck                        | NA         |
| 5.15   | Sledges with cords for pulling   | NA         |
| 6      | Packaging  | P          |
| 7      | Warnings, markings and instructions for use  |            |

\*\*\*\*\*



**TEST REPORT**

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

Number: BKKH19016369

Test conducted:

| Clause | Requirements  | Assessment |
|--------|---|------------|
| 7.1    | General   | P          |
| 7.2    | Toys not intended for children under 36 months  | P          |
| 7.3    | Latex balloons  | NA         |
| 7.4    | Aquatic toys  | NA         |
| 7.5    | Functional toys   | NA         |
| 7.6    | Hazardous sharp functional edges and points   | NA         |
| 7.7    | Projectiles   | NA         |
| 7.8    | Imitation protective masks and helmets  | NA         |
| 7.9    | Toy kites   | NA         |
| 7.10   | Roller skates, inlineskates and skateboards and certain other ride-on toys                | NA         |
| 7.11   | Toys intended to be attached to strung across a cradle, cot, or perambulator              | NA         |
| 7.12   | Liquid-filled teethingers   | NA         |
| 7.13   | Percussion caps specifically designed for use in toys                                     | NA         |
| 7.14   | Acoustics   | NA         |
| 7.15   | Toy bicycles  | NA         |
| 7.16   | Toys intended to bear the mass of a child   | NA         |
| 7.17   | Toys comprising monofilament fibres   | NA         |
| 7.18   | Toy scooters  | NA         |
| 7.19   | Rocking horses and similar toys   | NA         |
| 7.20   | Magnetic/electrical experimental sets   | NA         |
| 7.21   | Toys with electrical cables exceeding 300 mm in length                                    | NA         |
| 7.22   | Toys with cords or chains intended for children of 18 months and over but under 36 months | NA         |
| 7.23   | Toys intended to be attached to a cradle, cot or perambulator                             | NA         |
| 7.24   | Sledges with cords for pulling  | NA         |
| 7.25   | Flying toys   | NA         |
| 7.26   | Improvised projectiles  | NA         |

Abbreviation : P = Pass NA = Not Applicable  
 Remark: ▲ = Tested items are not included in the TISI Accreditation  
 Only artwork of packaging was provided for review.

\*\*\*\*\*



**TEST REPORT**

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

Number: BKKH19016369

Test conducted:

Below are additional information according to the Toy Safety Directive 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements and not accredited:

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

|                             | Toy     | Packaging |
|-----------------------------|---------|-----------|
| Manufacturer's name         | Present | Present   |
| Manufacturer's address      | Absent  | Present   |
| Importer's name             | Absent  | Absent    |
| Importer's address          | Absent  | Absent    |
| Product identification code | Absent  | Present   |
| CE-marking                  | Absent  | Present   |

Testing period : December 03, 2019 to December 26, 2019

\*\*\*\*\*



**TEST REPORT**

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

Number: BKKH19016369

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 : December 03, 2019 to December 18, 2019

\*\*\*\*\*



# TEST REPORT

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

Number: BKKH19016369

Test conducted:

3 19 Toxic elements migration test<sup>▲</sup>

(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

| Element (Soluble)       | Result (mg/kg) |       |       |         |            | LOD<br>(mg/kg) | LOQ<br>(mg/kg)  | Limit<br>(mg/kg) |
|-------------------------|----------------|-------|-------|---------|------------|----------------|-----------------|------------------|
|                         | (1)            | (2)   | (3)   | (4)     | (5)        |                |                 |                  |
| Aluminium (Al)          | ND             | ND    | <5    | <5      | <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             | 10    | 14    | ND      | ND         | 0.1            | 5               | 18750            |
| Boron (B)               | ND             | 78    | ND    | ND      | ND         | 0.01           | 5               | 15000            |
| Cadmium (Cd)            | ND             | <0.1  | ND    | ND      | ND         | 0.01           | 0.1             | 17               |
| Chromium (Cr) Δ         | 0.138          | <0.04 | <0.04 | 0.202   | 0.093      | 0.01           | 0.04            | -                |
| Chromium (III) (Cr III) | 0.138          | NC    | NC    | 0.202   | 0.093      | -              | -               | 460              |
| Chromium (VI) (Cr VI)   | <0.053#(S)     | NC    | NC    | <0.025# | <0.053#(S) | -              | 0.025/<br>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             | <1    | ND    | ND      | ND         | 0.1            | 1               | 23               |
| Manganese (Mn)          | 39             | 50    | 195   | <5      | ND         | 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             | 12    | 18    | ND      | ND         | 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             | 12    | <5    | 87      | 185        | 0.5            | 5               | 46000            |

\*\*\*\*\*





# TEST REPORT

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

Number: BKKH19016369

Test conducted:

19 Toxic elements migration test<sup>▲</sup>

(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

| Element (Soluble)       | Result (mg/kg) |            |            | LOD<br>(mg/kg) | LOQ<br>(mg/kg) | Limit<br>(mg/kg) |
|-------------------------|----------------|------------|------------|----------------|----------------|------------------|
|                         | (6)            | (7)        | (8)        |                |                |                  |
| Aluminium (Al)          | <5             | 7          | 24         | 0.5            | 5              | 70000            |
| Antimony (Sb)           | ND             | ND         | ND         | 0.2            | 5              | 560              |
| Arsenic (As)            | ND             | ND         | ND         | 0.01           | 0.1            | 47               |
| Barium (Ba)             | ND             | 15         | ND         | 0.1            | 5              | 18750            |
| Boron (B)               | ND             | ND         | <5         | 0.01           | 5              | 15000            |
| Cadmium (Cd)            | ND             | ND         | ND         | 0.01           | 0.1            | 17               |
| Chromium (Cr) Δ         | 0.321          | 0.117      | 0.212      | 0.01           | 0.04           | -                |
| Chromium (III) (Cr III) | 0.321          | 0.117      | 0.212      | -              | -              | 460              |
| Chromium (VI) (Cr VI)   | <0.053#(S)     | <0.053#(S) | <0.053#(S) | -              | 0.053          | 0.053            |
| Cobalt (Co)             | ND             | ND         | ND         | 0.01           | 1              | 130              |
| Copper (Cu)             | ND             | ND         | ND         | 0.5            | 5              | 7700             |
| Lead (Pb)               | <1             | ND         | ND         | 0.1            | 1              | 23               |
| Manganese (Mn)          | 15             | 13         | 19         | 0.01           | 5              | 15000            |
| Mercury (Hg)            | ND             | ND         | ND         | 0.2            | 1              | 94               |
| Nickel (Ni)             | ND             | ND         | ND         | 0.1            | 5              | 930              |
| Selenium (Se)           | ND             | ND         | ND         | 0.1            | 5              | 460              |
| Strontium (Sr)          | 12             | ND         | <5         | 0.1            | 5              | 56000            |
| Tin (Sn) ΔΔ             | ND             | ND         | ND         | 0.1            | 1              | 180000           |
| Organic tin             | NC             | NC         | NC         | 1              | 3              | 12               |
| Zinc (Zn)               | 7              | 6          | 10         | 0.5            | 5              | 46000            |

\*\*\*\*\*



**TEST REPORT**

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



Number: BKKH19016369

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
- <sup>(S)</sup> = Test item has been tested by subcontractor approved by Intertek.
- ▲ = Tested items are not included in the TISI Accreditation

- 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.

\*\*\*\*\*



# TEST REPORT

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



Number: BKKH19016369

Test conducted:

Tested components:

|                                 | Report               | Date         |
|---------------------------------|----------------------|--------------|
| (1) SOLID WOOD                  | REFER BKKH19008023S1 | Jul 15, 2019 |
| (2) MDF WOOD                    | REFER BKKH19008023S1 | Jul 15, 2019 |
| (3) HARD BOARD                  | REFER BKKH19008023S1 | Jul 15, 2019 |
| (4) LIGHT BROWN COATING ON WOOD | REFER BKKH20000021   | Jan 15, 2020 |
| (5) WHITE ELASTIC               | REFER BKKH19008026S1 | Jul 18, 2019 |
| (6) BLACK COATING ON WOOD       | REFER BKKH19007793S1 | Jul 15, 2019 |
| (7) RED COATING ON WOOD         | REFER BKKH19007790S1 | Jul 15, 2019 |
| (8) BROWN COATING ON WOOD       | REFER BKKH19007791S1 | 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.

\*\*\*\*\*



## TEST REPORT

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

Number: BKKH19016369

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

*Except where explicitly agreed in writing, all work and services performed by Intertek is subject to our standard Terms and Conditions which can be obtained at our website: <http://www.intertek.com/terms/>. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. This report is made solely on the basis of your instructions and / or information and materials supplied by you and provide no warranty on the tested sample(s) be truly representative of the sample source. The report is not intended to be a recommendation for any particular course of action, you are responsible for acting as you see fit on the basis of the report results. Intertek is under no obligation to refer to or report upon any facts or circumstances which are outside the specific instructions received and accepts no responsibility to any parties whatsoever, following the issue of the report, for any matters arising outside the agreed scope of the works. This report does not discharge or release you from your legal obligations and duties to any other person. You are the only one authorized to permit copying or distribution of this report (and then only in its entirety). Any such third parties to whom this report may be circulated rely on the content of the report solely at their own risk. This report shall not be reproduced, except in full.*