

TEST REPORT

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

Number: BKKH19014715

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

Issued Date: Dec 23, 2019

Sample description:

| | |
|----------------------------|-------------------|
| Quantity of sample: | One (1) set |
| Sample description: | Wooden toy |
| Date sample received: | October 31, 2019 |
| Date Information received: | December 16, 2019 |

Client Information:

One (1) set of submitted sample said to be GEO STACKING ROCK

| | |
|--------------|-------------------|
| Item Name: | GEO STACKING ROCK |
| Item Number: | 5511 |



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 Wongwiboonporn
Laboratory Manager
Hardlines Department

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Conclusion:

| <u>Tested samples</u> | <u>Standard</u> | <u>Result</u> |
|-----------------------|---|---------------|
| Submitted samples | EN71-1 : 2014+A1:2018 Mechanical and physical properties | Pass |
| | EN71-2 : 2011 + A1 : 2014 Flammability test | Pass |
| | EN71-3 : 2019 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> |
|-------------------|-------------------|--------------|
| WARM GRAY SAWDUST | BKKH19013135 | Oct 08, 2019 |
| YELLOW SAWDUST | BKKH19008027S1 | Jul 18, 2019 |
| RED SAWDUST | BKKH19008027S1 | Jul 18, 2019 |
| BLACK SAWDUST | BKKH19009832 | Aug 15, 2019 |
| ORANGE SAWDUST | BKKH19008027S1 | Jul 18, 2019 |
| SAWDUST WOOD | BKKH19008023S1 | Jul 15, 2019 |
| GRAY SAWDUST | BKKH19009003 | Jul 19, 2019 |



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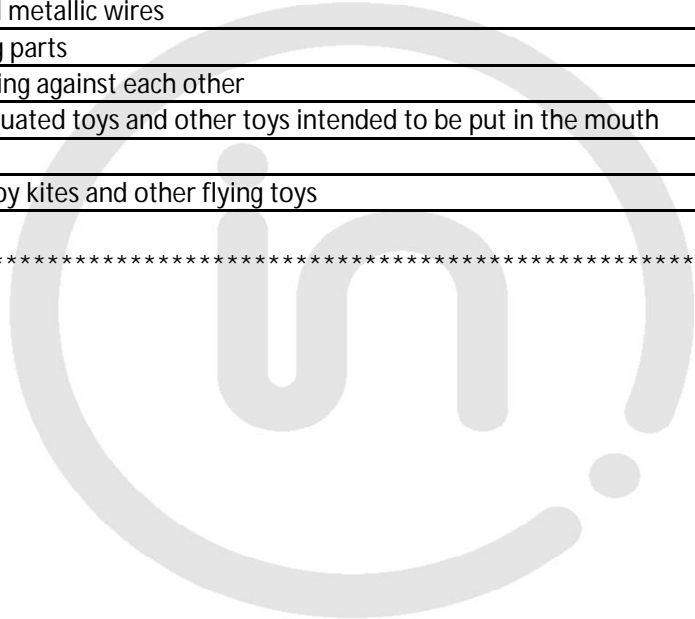
Test conducted:

1 Mechanical and Physical Test[▲]

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

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

| Clause | Requirements | Assessment |
|--------|--|------------|
| 4 | General requirements | |
| 4.1 | Material cleanliness | P |
| 4.2 | Assembly | NA |
| 4.3 | Flexible plastic sheeting | NA |
| 4.4 | Toy bags | NA |
| 4.5 | Glass | NA |
| 4.6 | Expanding materials | NA |
| 4.7 | Edges | NA |
| 4.8 | Points and metallic wires | P |
| 4.9 | Protruding parts | NA |
| 4.10 | Parts moving against each other | NA |
| 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 |



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Test conducted:

| Clause | Requirements | Assessment |
|--------|--|------------|
| 4.14 | Enclosures | NA |
| 4.15 | Toys intended to bear the mass of a child | NA |
| 4.16 | Heavy immobile toys | NA |
| 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 |
| 4.2 | 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 | NA |
| 7 | Warnings, markings and instructions for use | |



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Test conducted:

| Clause | Requirements | Assessment |
|--------|---|------------|
| 7.1 | General | NA |
| 7.2 | Toys not intended for children under 36 months | NA |
| 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

Remark: No final packaging was submitted for testing.



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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 : October 31, 2019 to December 20, 2019



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Number: BKKH19014715

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 : October 31, 2019 to November 13, 2019



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Number: BKKH19014715

Test conducted:

3 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

| Element (Soluble) | Result (mg/kg) | | | | | LOD | LOQ | Limit |
|-------------------------|----------------|-------|------------|-------|------------|---------|----------------|---------|
| | (1) | (2) | (3) | (4) | (5) | (mg/kg) | (mg/kg) | (mg/kg) |
| Aluminium (Al) | 46 | ND | ND | <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) | ND | 117 | <5 | ND | ND | 0.1 | 5 | 18750 |
| Boron (B) | 11 | 26 | 25 | 18 | 24 | 0.01 | 5 | 15000 |
| Cadmium (Cd) | ND | <0.1 | <0.1 | ND | <0.1 | 0.01 | 0.1 | 17 |
| Chromium (Cr) Δ | 0.064 | <0.04 | 0.372 | <0.04 | 0.069 | 0.01 | 0.04 | - |
| Chromium (III) (Cr III) | 0.064 | NC | 0.372 | NC | 0.069 | - | - | 460 |
| Chromium (VI) (Cr VI) | <0.05# | NC | <0.053#(S) | NC | <0.053#(S) | - | 0.05/ 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 | 2 | 2 | 1 | 2 | 0.1 | 1 | 23 |
| Manganese (Mn) | 37 | 45 | 37 | 42 | 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) | 8 | 11 | 8 | 8 | 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) | 9 | 10 | 7 | 8 | 8 | 0.5 | 5 | 46000 |



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Number: BKKH19014715

Test conducted:

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

| Element (Soluble) | Result (mg/kg) | | LOD (mg/kg) | LOQ (mg/kg) | Limit (mg/kg) |
|-------------------------|----------------|-------|----------------|----------------|------------------|
| | (6) | (7) | | | |
| Aluminium (Al) | 280 | 23 | 0.5 | 5 | 70000 |
| Antimony (Sb) | ND | ND | 0.2 | 5 | 560 |
| Arsenic (As) | ND | ND | 0.01 | 0.1 | 47 |
| Barium (Ba) | ND | ND | 0.1 | 5 | 18750 |
| Boron (B) | 16 | 21 | 0.01 | 5 | 15000 |
| Cadmium (Cd) | <0.1 | ND | 0.01 | 0.1 | 17 |
| Chromium (Cr) Δ | 0.121 | <0.04 | 0.01 | 0.04 | - |
| Chromium (III) (Cr III) | 0.121 | NC | - | - | 460 |
| Chromium (VI) (Cr VI) | <0.053#(S) | NC | - | 0.053 | 0.053 |
| Cobalt (Co) | ND | ND | 0.01 | 1 | 130 |
| Copper (Cu) | ND | ND | 0.5 | 5 | 7700 |
| Lead (Pb) | 1 | 1 | 0.1 | 1 | 23 |
| Manganese (Mn) | 38 | 36 | 0.01 | 5 | 15000 |
| Mercury (Hg) | ND | ND | 0.2 | 1 | 94 |
| Nickel (Ni) | ND | ND | 0.1 | 5 | 930 |
| Selenium (Se) | ND | ND | 0.1 | 5 | 460 |
| Strontium (Sr) | 7 | 7 | 0.1 | 5 | 56000 |
| Tin (Sn) ΔΔ | ND | ND | 0.1 | 1 | 180000 |
| Organic tin | NC | NC | 1 | 3 | 12 |
| Zinc (Zn) | 23 | 13 | 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.
- ▲ = 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.



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Number: BKKH19014715

Test conducted:

Tested components:

| | Report | Date |
|-----------------------|----------------------|--------------|
| (1) WARM GRAY SAWDUST | REFER BKKH19013135 | Oct 08, 2019 |
| (2) YELLOW SAWDUST | REFER BKKH19008027S1 | Jul 18, 2019 |
| (3) RED SAWDUST | REFER BKKH19008027S1 | Jul 18, 2019 |
| (4) BLACK SAWDUST | REFER BKKH19009832 | Aug 15, 2019 |
| (5) ORANGE SAWDUST | REFER BKKH19008027S1 | Jul 18, 2019 |
| (6) SAWDUST WOOD | REFER BKKH19008023S1 | Jul 15, 2019 |
| (7) GRAY SAWDUST | REFER BKKH19009003 | Jul 19, 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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