



# TEST REPORT

**Report No. 010221120011**

Dated DEC 10, 2021

**Client** : PLAN CREATIONS CO., LTD.  
8 MOO 8, TRANG-PALIAN RD.,  
YANTAKAO, TRANG 92140  
ATTN: MS RATCHADA KONGTHON

**Buyer** : /

**Test Sample Received** : RECEIVED ON 06/12/2021

**Test Period** : FROM 06/12/2021 TO 10/12/2021

**Sample Description** : GEO METRIC SORTING BOARD - ORCHARD COLLECTION

**Product Code** : 5476

**Age Grade** : 2Y+

**Manufacturer** : /

**Country of Destination** : /

**Country of Origin** : THAILAND

| TEST REQUESTED                                                                                                                      | CONCLUSION | REMARK |
|-------------------------------------------------------------------------------------------------------------------------------------|------------|--------|
| ASTM F963-17 – STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY (MECHANICAL AND PHYSICAL PROPERTIES)                           | PASS       | -      |
| CPSC 2020 AGE DETERMINATION GUIDELINES                                                                                              | DATA       | -      |
| ASTM F963-17 – STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY (FLAMMABILITY)                                                 | PASS       | -      |
| CONSUMER PRODUCT SAFETY IMPROVEMENT ACT OF 2008 SECTION 101 CHILDREN'S PRODUCTS CONTAINING LEAD; LEAD PAINT RULE                    | PASS       | -      |
| ILCS 410 ILCS 45 LEAD POISONING PREVENTION ACT SEC. 6(B) CHILDREN'S PRODUCTS (ILLINOIS)                                             | PASS       | -      |
| ASTM F963-17 – STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY (SOLUBLE HEAVY METAL CONTENT)                                  | PASS       | -      |
| CONSUMER PRODUCT SAFETY IMPROVEMENT ACT OF 2008 SECTION 108 PROHIBITION OF SALE OF CERTAIN PRODUCTS CONTAINING SPECIFIED PHTHALATES | PASS       | -      |
| CALIFORNIA PROPOSITION 65 – PHTHALATE CONTENT                                                                                       | PASS       | -      |



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For technical enquiries or any other concerns, please contact:

GIC TESTING & INSPECTION SERVICES

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**PREPARED BY:**

**EDMUND YAP**

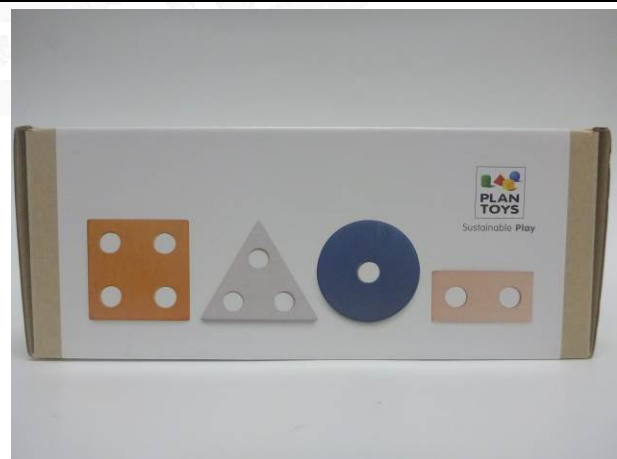
**LABORATORY MANAGER**

**APPROVED BY:**

**SUZEN CHONG**

**SENIOR VICE PRESIDENT**

## SAMPLE PHOTO





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## SAMPLE PHOTO





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## REMARK:

As per customer request, results for chemical tests listed below were referenced from the corresponding reports, issued no more than 12 months prior to this report.

**Item Description:** 5476 GEO METRIC SORTING BOARD - ORCHARD COLLECTION

| <u>Components</u>                               | <u>Report Number</u> | <u>Date of Issue</u> |
|-------------------------------------------------|----------------------|----------------------|
| <b><u>ASTM F963-17 Soluble Heavy Metals</u></b> |                      |                      |
| LIGHT GRAY COATING ON WOOD                      | 010221060151         | 01 Jul 2021          |
| LIGHT ORANGE COATING ON WOOD                    | 120120084            | 18 Dec 2020          |
| DARK YELLOW COATING ON WOOD                     | 120120055            | 11 Dec 2020          |
| DARK BLUE COATING ON WOOD                       | 120120056            | 11 Dec 2020          |
| <b><u>Lead in Surface Coating</u></b>           |                      |                      |
| LIGHT GRAY COATING ON WOOD                      | 010221060151         | 01 Jul 2021          |
| LIGHT ORANGE COATING ON WOOD                    | 120120084            | 18 Dec 2020          |
| DARK YELLOW COATING ON WOOD                     | 120120055            | 11 Dec 2020          |
| DARK BLUE COATING ON WOOD                       | 120120056            | 11 Dec 2020          |
| <b><u>Phthalate Content</u></b>                 |                      |                      |
| LIGHT GRAY COATING ON WOOD                      | 010221060151         | 01 Jul 2021          |
| LIGHT ORANGE COATING ON WOOD                    | 120120084            | 18 Dec 2020          |
| DARK YELLOW COATING ON WOOD                     | 120120055            | 11 Dec 2020          |
| DARK BLUE COATING ON WOOD                       | 120120056            | 11 Dec 2020          |



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## TEST RESULT(S):

**ASTM F963-17 – Standard Consumer Safety Specification for Toy Safety (Mechanical and Physical Properties)**

**Test Method** : Reference to ASTM F963-17.

| Test Item(s) | Item / Component Description(s)                    |
|--------------|----------------------------------------------------|
| 1            | 5476 GEO METRIC SORTING BOARD - ORCHARD COLLECTION |

| Section | Requirement                                       | Result      |
|---------|---------------------------------------------------|-------------|
|         |                                                   | 1           |
| 4.1     | Material quality                                  | M           |
| 4.2     | Flammability                                      | See Results |
| 4.3     | Toxicology                                        | See Results |
| 4.4     | Electrical/Thermal Energy                         | NA          |
| 4.5     | Sound-Producing Toys                              | NA          |
| 4.6     | Small Objects                                     | M           |
| 4.7     | Accessible Edges                                  | M           |
| 4.8     | Projections                                       | NA          |
| 4.9     | Accessible Points                                 | M           |
| 4.10    | Wires or Rods                                     | NA          |
| 4.11    | Nails and Fasteners                               | NA          |
| 4.12    | Plastic Film                                      | NA          |
| 4.13    | Folding Mechanisms and Hinges                     | NA          |
| 4.14    | Cords, Straps, and Elastics                       | NA          |
| 4.15    | Stability and Over-Load Requirements              | NA          |
| 4.16    | Confined Spaces                                   | NA          |
| 4.17    | Wheels, Tires, and Axles                          | NA          |
| 4.18    | Holes, Clearance, and Accessibility of Mechanisms | NA          |
| 4.19    | Simulated Protective Devices                      | NA          |
| 4.20    | Pacifiers                                         | NA          |
| 4.21    | Projectile Toys                                   | NA          |
| 4.22    | Teethers and Teething Toys                        | NA          |
| 4.23    | Rattles                                           | NA          |
| 4.24    | Squeeze Toys                                      | NA          |
| 4.25    | Battery-Operated Toys                             | NA          |
| 4.26    | Toys Intended to be Attached to a Crib or Playpen | NA          |
| 4.27    | Stuffed and Beanbag-Type Toys                     | NA          |
| 4.28    | Stroller and Carriage Toys                        | NA          |
| 4.29    | Art Materials                                     | NA          |
| 4.30    | Toy Gun Marking                                   | NA          |
| 4.31    | Balloons                                          | NA          |
| 4.32    | Certain Toys with Nearly Spherical Ends           | NA          |
| 4.33    | Marbles                                           | NA          |
| 4.34    | Balls                                             | NA          |
| 4.35    | Pompoms                                           | NA          |
| 4.36    | Hemispheric-Shaped Objects                        | NA          |
| 4.37    | Yo Yo Elastic Tether Toys                         | NA          |
| 4.38    | Magnets                                           | NA          |
| 4.39    | Jaw Entrapment in Handles and Steering Wheels     | NA          |
| 4.40    | Expanding Materials                               | NA          |
| 4.41    | Toy Chests                                        | NA          |
| 5       | Labeling Requirements                             | M           |
| 6       | Instructional Literature                          | M           |
| 7       | Producer's Markings                               | M           |



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## TEST RESULT(S): (Continued)

Note:

M = Meet

NM = Not Meet

NA = Not Applicable

R = Refer to Comment Section

NR = Not Requested

NT = Not Tested

NP = Not Present

## CPSC 2020 Age Determination Guidelines

**Test Method** : Reference to CPSC 2020 Age Determination Guidelines.

| Claimed Age Grade | Recommended Age Grade |
|-------------------|-----------------------|
| 2Y+               | 2Y+                   |

## ASTM F963-17 – Standard Consumer Safety Specification for Toy Safety (Flammability)

**Test Method** : Reference to ASTM F963-17 Annex A5 and A6.

| Test Item(s) | Item / Component Description(s)                    |
|--------------|----------------------------------------------------|
| 1            | 5476 GEO METRIC SORTING BOARD - ORCHARD COLLECTION |

| Test Item(s) | Length of Major Axis (in) | Burn Length (in) | Burn Time (s) | Req. (in/s) | Burn Rate (in/s) | Result |
|--------------|---------------------------|------------------|---------------|-------------|------------------|--------|
| 1            | 9.5                       | DNI              | DNI           | 0.1         | DNI              | DNI    |
| Conclusion   | -                         | -                | -             | -           | -                | PASS   |

Note:

M = Meet

NM = Not Meet

NA = Not Applicable

R = Refer to Comment Section

NR = Not Requested

NT = Not Tested

NP = Not Present

DNI = Did Not Ignite

## Consumer Product Safety Improvement Act of 2008 Section 101 Children's Products Containing Lead: Lead Paint Rule

**Test Method** : Reference to CPSC-CH-E1003-09.1 Analysis by ICP-MS.

| Test Item(s) | Item / Component Description(s) |
|--------------|---------------------------------|
| 1            | LIGHT GRAY COATING ON WOOD      |
| 2            | LIGHT ORANGE COATING ON WOOD    |
| 3            | DARK YELLOW COATING ON WOOD     |
| 4            | DARK BLUE COATING ON WOOD       |

| -            | Unit  | Req. | Result |      |      |      |
|--------------|-------|------|--------|------|------|------|
| Test Item(s) | -     | -    | 1      | 2    | 3    | 4    |
| Lead         | mg/kg | 90   | ND     | ND   | ND   | ND   |
| Conclusion   | -     | -    | PASS   | PASS | PASS | PASS |

Note:

- mg/kg = milligrams per kilogram

- ND = Not Detected

- Reporting limit (Each): 2 mg/kg



# TEST REPORT

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## TEST RESULT(S): (Continued)

### 410 ILCS 45 Lead Poisoning Prevention Act sec. 6(b) Children's Products (Illinois)

**Test Method** : Reference to CPSC-CH-E1002-08.3, CPSC-CH-E1003-09.1 Analysis by ICP-MS.

| Test Item(s) | Item / Component Description(s) |
|--------------|---------------------------------|
| 1            | LIGHT GRAY COATING ON WOOD      |
| 2            | LIGHT ORANGE COATING ON WOOD    |
| 3            | DARK YELLOW COATING ON WOOD     |
| 4            | DARK BLUE COATING ON WOOD       |

| -               | Unit  | Req. | Result |      |      |      |
|-----------------|-------|------|--------|------|------|------|
| Test Item(s)    | -     | -    | 1      | 2    | 3    | 4    |
| Total Lead (Pb) | mg/kg | 40   | ND     | ND   | ND   | ND   |
| Conclusion      | -     | -    | PASS   | PASS | PASS | PASS |

Note:

- mg/kg = milligrams per kilogram
- ND = Not Detected
- Reporting limit (Each): 2 mg/kg

### ASTM F963-17 – Standard Consumer Safety Specification for Toy Safety (Soluble Heavy Metal Content)

**Test Method** : Reference to ASTM F963-17 Analysis by ICP-MS.

| Test Item(s) | Item / Component Description(s) |
|--------------|---------------------------------|
| 1            | LIGHT GRAY COATING ON WOOD      |
| 2            | LIGHT ORANGE COATING ON WOOD    |
| 3            | DARK YELLOW COATING ON WOOD     |
| 4            | DARK BLUE COATING ON WOOD       |

| -                     | Unit  | Req. | Result |      |      |      |
|-----------------------|-------|------|--------|------|------|------|
| Test Item(s)          | -     | -    | 1      | 2    | 3    | 4    |
| Antimony (Sb)         | mg/kg | 60   | ND     | ND   | ND   | ND   |
| Arsenic (As)          | mg/kg | 25   | ND     | ND   | ND   | ND   |
| Barium (Ba)           | mg/kg | 1000 | ND     | ND   | ND   | ND   |
| Cadmium (Cd)          | mg/kg | 75   | ND     | ND   | ND   | ND   |
| Chromium III (Cr III) | mg/kg | 60   | ND     | ND   | ND   | ND   |
| Lead (Pb)             | mg/kg | 90   | ND     | ND   | ND   | ND   |
| Mercury (Hg)          | mg/kg | 60   | ND     | ND   | ND   | ND   |
| Selenium (Se)         | mg/kg | 500  | ND     | ND   | ND   | ND   |
| Conclusion            | -     | -    | PASS   | PASS | PASS | PASS |

Note:

- mg/kg = milligrams per kilogram
- ND = Not Detected
- Reporting limit (each) = 2 mg/kg



# TEST REPORT

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## TEST RESULT(S): (Continued)

### Consumer Product Safety Improvement Act of 2008 Section 108 Prohibition of Sale of Certain Products Containing Specified Phthalates

Test Method : Reference to CPSC-CH-C1001-09.4 Analysis by GC-MS.

| Test Item(s) | Item / Component Description(s) |
|--------------|---------------------------------|
| 1            | LIGHT GRAY COATING ON WOOD      |
| 2            | LIGHT ORANGE COATING ON WOOD    |
| 3            | DARK YELLOW COATING ON WOOD     |
| 4            | DARK BLUE COATING ON WOOD       |

| -                           | Abbrev. | Unit | Req. | Result |      |      |      |
|-----------------------------|---------|------|------|--------|------|------|------|
| Test Item(s)                | -       | -    | -    | 1      | 2    | 3    | 4    |
| Di-(2-ethylhexyl) phthalate | DEHP    | %    | 0.1  | ND     | ND   | ND   | ND   |
| Di-butyl phthalate          | DBP     | %    | 0.1  | ND     | ND   | ND   | ND   |
| Benzyl butyl phthalate      | BBP     | %    | 0.1  | ND     | ND   | ND   | ND   |
| Di-iso-nonyl phthalate      | DINP    | %    | 0.1  | ND     | ND   | ND   | ND   |
| Di-iso-butyl phthalate      | DIBP    | %    | 0.1  | ND     | ND   | ND   | ND   |
| Di-n-pentyl phthalate       | DPENP   | %    | 0.1  | ND     | ND   | ND   | ND   |
| Di-n-hexyl phthalate        | DHEXP   | %    | 0.1  | ND     | ND   | ND   | ND   |
| Di-cyclohexyl phthalate     | DCHP    | %    | 0.1  | ND     | ND   | ND   | ND   |
| Conclusion                  |         | -    | -    | PASS   | PASS | PASS | PASS |

Note:

- Reporting limit (Each): 0.01 %

- ND = Not Detected

| ANNEX                       |         |          |                         |         |                         |
|-----------------------------|---------|----------|-------------------------|---------|-------------------------|
| Compound                    | Abbrev. | CASRN    | Compound                | Abbrev. | CASRN                   |
| Di-(2-ethylhexyl) phthalate | DEHP    | 117-81-7 | Di-iso-butyl phthalate  | DIBP    | 84-69-5                 |
| Di-butyl phthalate          | DBP     | 84-74-2  | Di-n-pentyl phthalate   | DPENP   | 84-61-7                 |
| Benzyl butyl phthalate      | BBP     | 85-68-7  | Di-n-hexyl phthalate    | DHEXP   | 28553-12-0 / 68515-48-0 |
| Di-iso-nonyl phthalate      | DINP    | 131-18-0 | Di-cyclohexyl phthalate | DCHP    | 84-75-3                 |

CASRN: Chemical Abstracts Service Registry Number

### California Proposition 65 – Phthalate Content

Test Method : Reference to CPSC-CH-C1001-09.4 Analysis by GC-MS.

| Test Item(s) | Item / Component Description(s) |
|--------------|---------------------------------|
| 1            | LIGHT GRAY COATING ON WOOD      |
| 2            | LIGHT ORANGE COATING ON WOOD    |
| 3            | DARK YELLOW COATING ON WOOD     |
| 4            | DARK BLUE COATING ON WOOD       |

| -                           | Abbrev. | Unit | Req. | Result |      |      |      |
|-----------------------------|---------|------|------|--------|------|------|------|
| Test Item(s)                | -       | -    | -    | 1      | 2    | 3    | 4    |
| Benzyl butyl phthalate      | BBP     | %    | 0.1  | ND     | ND   | ND   | ND   |
| Di-butyl phthalate          | DBP     | %    | 0.1  | ND     | ND   | ND   | ND   |
| Di-(2-ethylhexyl) phthalate | DEHP    | %    | 0.1  | ND     | ND   | ND   | ND   |
| Di-iso-decyl phthalate      | DIDP    | %    | 0.1  | ND     | ND   | ND   | ND   |
| Di-iso-nonyl phthalate      | DINP    | %    | 0.1  | ND     | ND   | ND   | ND   |
| Di-n-hexyl phthalate        | DNHP    | %    | 0.1  | ND     | ND   | ND   | ND   |
| Conclusion                  |         | -    | -    | PASS   | PASS | PASS | PASS |



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## TEST RESULT(S): (Continued)

Note:

- Reporting limit (Each): 0.01 %

- ND = Not Detected

| ANNEX                       |         |          |                        |         |                         |
|-----------------------------|---------|----------|------------------------|---------|-------------------------|
| Compound                    | Abbrev. | CASRN    | Compound               | Abbrev. | CASRN                   |
| Di-butyl phthalate          | DBP     | 84-74-2  | Di-iso-decyl phthalate | DIDP    | 68515-49-1 / 26761-40-0 |
| Benzyl butyl phthalate      | BBP     | 85-68-7  | Di-iso-nonyl phthalate | DINP    | 131-18-0                |
| Di-(2-ethylhexyl) phthalate | DEHP    | 117-81-7 | Di-n-hexyl phthalate   | DNHP    | 28553-12-0 / 68515-48-0 |

CASRN: Chemical Abstracts Service Registry Number

## END OF REPORT

This report sets forth our findings solely with respect to the test samples identified herein. The results in this report are not representative of the quality or characteristics of the lot/batch from which a test sample was taken or any similar or identical product unless specifically and expressly noted. The sample/s mentioned in this report is/are submitted/supplied/manufactured by the Client, GIC Testing & Inspection Services Pte. Ltd. therefore assumes no responsibility for the accuracy of information on the brand name, model/ style number, consignment or any information supplied. Unless otherwise stated in this report, no tests were conducted to determine long term effects of using the specific product. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission.