



# TEST REPORT

Report No. 010222050063

DATED: 02 JUNE 2022

**Client** : PLAN CREATIONS CO., LTD.  
8 MOO 8, TRANG-PALIAN RD.,  
YANTAKAO, TRANG 92140 THAILAND

**Buyer** : /

**Sample Description** : CONSTRUCTION SET

**Item No.** : 4129

**SKU No.** : /

**Model / Style** : /

**Age Grade** : 3-99Y

**Manufacturer** : /

**Country of Origin** : THAILAND

**Country of Destination** : /

**Test Sample Received** : RECEIVED ON 27/05/2022

**Test Period** : FROM 27/05/2022 TO 02/06/2022

| TEST REQUESTED                                                                                                                      | CONCLUSION | REMARK |
|-------------------------------------------------------------------------------------------------------------------------------------|------------|--------|
| ASTM F963-17 – STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY (MECHANICAL AND PHYSICAL PROPERTIES)                           | PASS       | -      |
| 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:

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**PREPARED BY:**

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**APPROVED BY:**

**SUZEN CHONG**

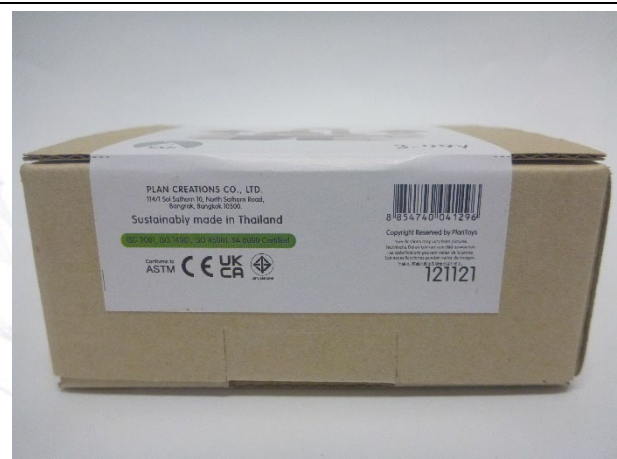
Senior Vice President

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**GIC Testing & Inspection Services Pte Ltd**

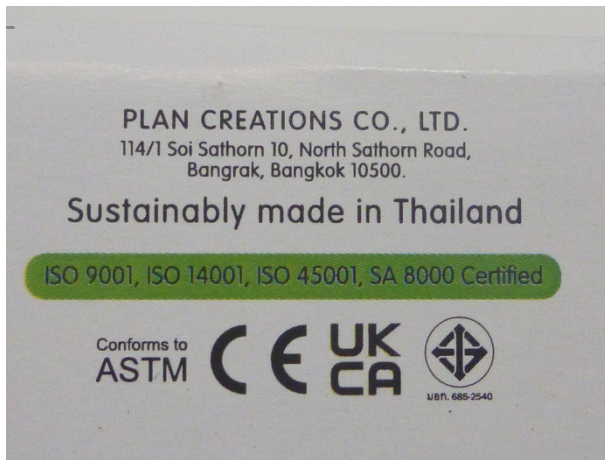
158 Kallang Way #08-01  
Singapore 349245

## SAMPLE PHOTO





## 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: 4129 CONSTRUCTION SET

### Components

#### ASTM F963-17 Soluble Heavy Metals

|                            | <u>Report Number</u> | <u>Date of Issue</u> |
|----------------------------|----------------------|----------------------|
| WHITE COATING ON WOOD      | 010222030086         | 06 Apr 2022          |
| LIGHT GRAY COATING ON WOOD | 010221060151         | 01 Jul 2021          |
| GRAY COATING ON WOOD       | 010221120064         | 23 Dec 2021          |
| BLACK COATING ON WOOD      | 010222030086         | 06 Apr 2022          |
| DARK BROWN COATING ON WOOD | 010221070114         | 16 Jul 2021          |

### Lead in Surface Coating

|                            |              |             |
|----------------------------|--------------|-------------|
| WHITE COATING ON WOOD      | 010222030086 | 06 Apr 2022 |
| LIGHT GRAY COATING ON WOOD | 010221060151 | 01 Jul 2021 |
| GRAY COATING ON WOOD       | 010221120064 | 23 Dec 2021 |
| BLACK COATING ON WOOD      | 010222030086 | 06 Apr 2022 |
| DARK BROWN COATING ON WOOD | 010221070114 | 16 Jul 2021 |

### Phthalate Content

|                            |              |             |
|----------------------------|--------------|-------------|
| WHITE COATING ON WOOD      | 010222030086 | 06 Apr 2022 |
| LIGHT GRAY COATING ON WOOD | 010221060151 | 01 Jul 2021 |
| GRAY COATING ON WOOD       | 010221120064 | 23 Dec 2021 |
| BLACK COATING ON WOOD      | 010222030086 | 06 Apr 2022 |
| DARK BROWN COATING ON WOOD | 010221070114 | 16 Jul 2021 |



# Report No. 010222050063

DATED: 02 JUNE 2022

## TEST RESULT(S):

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

Test Method : Reference to ASTM F963-17.

| Clause | Requirement                                       | Result      |
|--------|---------------------------------------------------|-------------|
| 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                                     | NA          |
| 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           |

Note:

M = Meet

NR = Not Requested

NM = Not Meet

NT = Not Tested

NA = Not Applicable

NP = Not Present

R = Refer to Comment Section





# Report No. 010222050063

DATED: 02 JUNE 2022

## TEST RESULT(S): (Continued)

### 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                 | 4129 CONSTRUCTION SET           |                  |               |             |                  |             |
| Test Item(s)      | Length of Major Axis (in)       | Burn Length (in) | Burn Time (s) | Req. (in/s) | Burn Rate (in/s) | Result      |
| 1                 | 1.6                             | DNI              | DNI           | 0.1         | DNI              | DNI         |
| <b>Conclusion</b> | -                               | -                | -             | -           | -                | <b>PASS</b> |

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                 | WHITE COATING ON WOOD           |      |             |             |             |             |             |
| 2                 | LIGHT GRAY COATING ON WOOD      |      |             |             |             |             |             |
| 3                 | GRAY COATING ON WOOD            |      |             |             |             |             |             |
| 4                 | BLACK COATING ON WOOD           |      |             |             |             |             |             |
| 5                 | DARK BROWN COATING ON WOOD      |      |             |             |             |             |             |
| -                 | Unit                            | Req. | Result      |             |             |             |             |
| Test Item(s)      | -                               | -    | 1           | 2           | 3           | 4           | 5           |
| Lead              | mg/kg                           | 90   | ND          | ND          | 2.1         | ND          | ND          |
| <b>Conclusion</b> | -                               | -    | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> |

Note:

- mg/kg = milligrams per kilogram

- ND = Not Detected

- Reporting limit (Each): 2 mg/kg

### 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                 | WHITE COATING ON WOOD           |      |             |             |             |             |             |
| 2                 | LIGHT GRAY COATING ON WOOD      |      |             |             |             |             |             |
| 3                 | GRAY COATING ON WOOD            |      |             |             |             |             |             |
| 4                 | BLACK COATING ON WOOD           |      |             |             |             |             |             |
| 5                 | DARK BROWN COATING ON WOOD      |      |             |             |             |             |             |
| -                 | Unit                            | Req. | Result      |             |             |             |             |
| Test Item(s)      | -                               | -    | 1           | 2           | 3           | 4           | 5           |
| Total Lead (Pb)   | mg/kg                           | 40   | ND          | ND          | 2.1         | ND          | ND          |
| <b>Conclusion</b> | -                               | -    | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> |

Note:

- mg/kg = milligrams per kilogram

- ND = Not Detected

- Reporting limit (Each): 2 mg/kg



# Report No. 010222050063

DATED: 02 JUNE 2022

## TEST RESULT(S): (Continued)

### 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            | WHITE COATING ON WOOD           |
| 2            | LIGHT GRAY COATING ON WOOD      |
| 3            | GRAY COATING ON WOOD            |
| 4            | BLACK COATING ON WOOD           |
| 5            | DARK BROWN COATING ON WOOD      |

| -                     | Unit  | Req. | Result      |             |             |             |             |
|-----------------------|-------|------|-------------|-------------|-------------|-------------|-------------|
| Test Item(s)          | -     | -    | 1           | 2           | 3           | 4           | 5           |
| Antimony (Sb)         | mg/kg | 60   | ND          | ND          | ND          | ND          | ND          |
| Arsenic (As)          | mg/kg | 25   | ND          | ND          | ND          | ND          | ND          |
| Barium (Ba)           | mg/kg | 1000 | ND          | ND          | ND          | ND          | 64          |
| Cadmium (Cd)          | mg/kg | 75   | ND          | ND          | ND          | ND          | ND          |
| Chromium III (Cr III) | mg/kg | 60   | ND          | ND          | ND          | ND          | ND          |
| Lead (Pb)             | mg/kg | 90   | ND          | ND          | ND          | 2.4         | ND          |
| Mercury (Hg)          | mg/kg | 60   | ND          | ND          | ND          | ND          | ND          |
| Selenium (Se)         | mg/kg | 500  | ND          | ND          | ND          | ND          | ND          |
| <b>Conclusion</b>     | -     | -    | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> |

Note:

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

### 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            | WHITE COATING ON WOOD           |
| 2            | LIGHT GRAY COATING ON WOOD      |
| 3            | GRAY COATING ON WOOD            |
| 4            | BLACK COATING ON WOOD           |
| 5            | DARK BROWN COATING ON WOOD      |

| -                           | Abbrev. | Unit | Req. | Result      |             |             |             |             |
|-----------------------------|---------|------|------|-------------|-------------|-------------|-------------|-------------|
| Test Item(s)                | -       | -    | -    | 1           | 2           | 3           | 4           | 5           |
| Di-(2-ethylhexyl) phthalate | DEHP    | %    | 0.1  | ND          | ND          | ND          | ND          | ND          |
| Di-butyl phthalate          | DBP     | %    | 0.1  | ND          | ND          | ND          | ND          | ND          |
| Benzyl butyl phthalate      | BBP     | %    | 0.1  | ND          | ND          | ND          | ND          | ND          |
| Di-iso-nonyl phthalate      | DINP    | %    | 0.1  | ND          | ND          | ND          | ND          | ND          |
| Di-iso-butyl phthalate      | DIBP    | %    | 0.1  | ND          | ND          | ND          | ND          | ND          |
| Di-n-pentyl phthalate       | DPENP   | %    | 0.1  | ND          | ND          | ND          | ND          | ND          |
| Di-n-hexyl phthalate        | DHEXP   | %    | 0.1  | ND          | ND          | ND          | ND          | ND          |
| Di-cyclohexyl phthalate     | DCHP    | %    | 0.1  | ND          | ND          | ND          | ND          | ND          |
| <b>Conclusion</b>           | -       | -    | -    | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> | <b>PASS</b> |

Note:

- Reporting limit (Each): 0.01 %
- ND = Not Detected





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## TEST RESULT(S): (Continued)

| 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            | WHITE COATING ON WOOD           |
| 2            | LIGHT GRAY COATING ON WOOD      |
| 3            | GRAY COATING ON WOOD            |
| 4            | BLACK COATING ON WOOD           |
| 5            | DARK BROWN COATING ON WOOD      |

| -                           | Abbrev. | Unit | Req. | Result |      |      |      |      |
|-----------------------------|---------|------|------|--------|------|------|------|------|
| Test Item(s)                | -       | -    | -    | 1      | 2    | 3    | 4    | 5    |
| Benzyl butyl phthalate      | BBP     | %    | 0.1  | ND     | ND   | ND   | ND   | ND   |
| Di-butyl phthalate          | DBP     | %    | 0.1  | ND     | ND   | ND   | ND   | ND   |
| Di-(2-ethylhexyl) phthalate | DEHP    | %    | 0.1  | ND     | ND   | ND   | ND   | ND   |
| Di-iso-decyl phthalate      | DIDP    | %    | 0.1  | ND     | ND   | ND   | ND   | ND   |
| Di-iso-nonyl phthalate      | DINP    | %    | 0.1  | ND     | ND   | ND   | ND   | ND   |
| Di-n-hexyl phthalate        | DNHP    | %    | 0.1  | ND     | ND   | ND   | ND   | ND   |
| Conclusion                  |         | -    | -    | PASS   | PASS | PASS | PASS | PASS |

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.