



# TEST REPORT

**Report No. 010121040040R1**

Dated NOV 29, 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 31/03/2021

**Test Period** : FROM 31/03/2021 TO 07/04/2021

**Sample Description** : MOSAIC

**Product Code** : 4131

**Age Grade** : 3 – 99Y

**Manufacturer** : /

**Country of Destination** : /

**Country of Origin** : THAILAND

*\*Report was revised as per client request and shall supersede Report# 010121040040, dated 07 Apr 2021.*

| TEST REQUESTED                                            | CONCLUSION | REMARK |
|-----------------------------------------------------------|------------|--------|
| EN 71-1:2014+A1:2018 – PHYSICAL AND MECHANICAL PROPERTIES | PASS       | -      |
| ISO 8124-8:2016 AGE DETERMINATION GUIDELINES              | DATA       | -      |
| EN 71-2:2020 – FLAMMABILITY                               | PASS       | -      |
| EN 71-3:2019+A1:2021 – MIGRATION OF CERTAIN ELEMENTS      | PASS       | -      |

For technical enquiries or any other concerns, please contact:

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**PREPARED BY:**

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**LABORATORY MANAGER**

**APPROVED BY:**

**SUZEN CHONG**  
**SENIOR VICE PRESIDENT**

# TEST REPORT

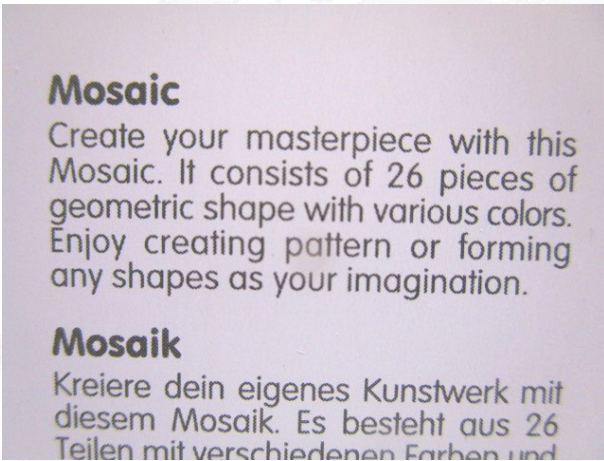
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## SAMPLE PHOTO



## SAMPLE PHOTO



## SAMPLE PHOTO



### REMARK:

The chemical tests listed was not conducted on the below components of samples. Client claimed that the components were tested in our previous test reports.

### Item Description: 4131 Mosaic

#### Components

#### EN 71-3:2019+A1:2021 – Migration of Certain Elements

Solid wood  
Yellow coating on wood (tone 108c)  
Yellow coating on wood(tone1235c)  
Lacquer coating on wood  
Light green coating on wood  
Dark brown coating on wood (logo)  
Light gray coating on wood  
Blue coating on wood  
Orange coating on wood  
Brown coating on wood (square part)

#### Report Number

#### Date of Issue

|           |             |
|-----------|-------------|
| 120070114 | 23 JUL 2020 |
| 120070116 | 23 JUL 2020 |
| 120070125 | 24 JUL 2020 |
| 120070120 | 23 JUL 2020 |
| 120080044 | 13 AUG 2020 |
| 120070131 | 24 JUL 2020 |
| 120070131 | 24 JUL 2020 |
| 120120125 | 30 DEC 2020 |
| 120070130 | 24 JUL 2020 |
| 120070122 | 24 JUL 2020 |



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## TEST RESULT(S):

### EN 71-1:2014+A1:2018 – Physical and Mechanical Properties

Test Method : Reference to EN 71-1:2014+A1:2018.

| Clause | Requirement                                                        | Result |
|--------|--------------------------------------------------------------------|--------|
| 4.1    | Material cleanliness                                               | M      |
| 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                                          | NA     |
| 4.8 e) | Splinters                                                          | M      |
| 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   | Cord of toy kites and other flying toys                            | NA     |
| 4.14   | Toys which a child can enter                                       | NA     |
| 4.15   | Toys propelled by child                                            | NA     |
| 4.16   | Heavy immobile toys                                                | NA     |
| 4.17   | Projectiles                                                        | NA     |
| 4.18   | Aquatic toys and inflatable toys                                   | NA     |
| 4.19   | Percussion caps                                                    | NA     |
| 4.20   | Acoustics                                                          | NA     |
| 4.21   | Toys containing a 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     |
| 5      | Toys intended for children under 36 months                         | NA     |
| 6      | Packaging                                                          | NA     |
| 7      | Warning, instructions for use                                      | M      |

Note:

M = Meet

NR = Not Requested

NM = Not Meet

NT = Not Tested

NA = Not Applicable

NP = Not Present

R = Refer to Comment Section

### ISO 8124-8:2016 Age Determination Guidelines

Test Method : Reference to ISO 8124-8.

| Claimed Age Grade | Recommended Age Grade |
|-------------------|-----------------------|
| 3 – 99Y           | 3Y+                   |



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## TEST RESULT(S): (Continued)

### EN 71-2:2020 – Flammability

Test Method : Reference to EN 71-2:2020.

| Test Item(s) | Item / Component Description(s) |
|--------------|---------------------------------|
| 1            | 4131 Mosaic                     |

| Subclause | Requirement                   | Result |
|-----------|-------------------------------|--------|
| 4.1       | General requirement           | PASS   |
|           | Celluloid (cellulose nitrate) | NP     |

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

### EN 71-3:2019+A1:2021 – Migration of Certain Elements

Test Method : Reference to EN 71-3:2019+A1:2021 Analysis by ICP-MS.

| Test Item(s) | Item / Component Description(s)     |
|--------------|-------------------------------------|
| 1            | Solid wood                          |
| 2            | Yellow coating on wood (tone 108c)  |
| 3            | Yellow coating on wood (tone 1235c) |
| 4            | Lacquer coating on wood             |
| 5            | Light green coating on wood         |
| 6            | Dark brown coating on wood (logo)   |
| 7            | Light gray coating on wood          |
| 8            | Blue coating on wood                |
| 9            | Orange coating on wood              |
| 10           | Brown coating on wood (square part) |

|                                                                                   |              |                                                                                                                          |
|-----------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------|
| See Soluble Element and its corresponding Maximum Allowable Limit in Result Table | Category I   | Pliable modelling materials or other solid materials intended to leave a trace appearing in the toy                      |
|                                                                                   | Category II  | Liquid paints/inks and other similar materials appearing as such in the toy (e.g. bubble solution), and glue sticks      |
|                                                                                   | Category III | Coatings, polymeric materials (e.g. plastics), paper, textiles, glass, ceramic, metallic, wood and other solid materials |



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## TEST RESULT(S): (Continued)

| -                     | Unit  | Req.   | Result |      |      |      |      |
|-----------------------|-------|--------|--------|------|------|------|------|
| Test Item(s)          | -     | -      | 1      | 2    | 3    | 4    | 5    |
| Category Type         | -     | III    | III    | III  | III  | III  | III  |
| Aluminium (Al)        | mg/kg | 28130  | ND     | 134  | 119  | ND   | 70   |
| Antimony (Sb)         | mg/kg | 560    | ND     | ND   | ND   | ND   | ND   |
| Arsenic (As)          | mg/kg | 47     | ND     | ND   | ND   | ND   | ND   |
| Barium (Ba)           | mg/kg | 18750  | ND     | ND   | 22   | ND   | ND   |
| Boron (B)             | mg/kg | 15000  | ND     | ND   | ND   | ND   | ND   |
| Cadmium (Cd)          | mg/kg | 17     | ND     | ND   | ND   | ND   | ND   |
| Chromium III (Cr III) | mg/kg | 460    | 0.22   | 0.12 | 0.75 | 0.11 | 0.18 |
| Chromium VI (Cr VI)   | mg/kg | 0.053  | ND     | ND   | ND   | ND   | ND   |
| Cobalt (Co)           | mg/kg | 130    | ND     | ND   | ND   | ND   | ND   |
| Copper (Cu)           | mg/kg | 7700   | ND     | ND   | ND   | ND   | ND   |
| Lead (Pb)             | mg/kg | 23     | ND     | ND   | ND   | ND   | ND   |
| Manganese (Mn)        | mg/kg | 15000  | 26     | 15   | 22   | ND   | 19   |
| Mercury (Hg)          | mg/kg | 94     | ND     | ND   | ND   | ND   | ND   |
| Nickel (Ni)           | mg/kg | 930    | ND     | ND   | ND   | ND   | ND   |
| Selenium (Se)         | mg/kg | 460    | ND     | ND   | ND   | ND   | ND   |
| Strontium (Sr)        | mg/kg | 56000  | ND     | ND   | ND   | ND   | ND   |
| Tin (Sn)              | mg/kg | 180000 | 3.75   | ND   | ND   | ND   | ND   |
| Organic tin           | mg/kg | 12     | ND     | ND   | ND   | ND   | ND   |
| Zinc (Zn)             | mg/kg | 46000  | 10     | ND   | ND   | ND   | ND   |
| Conclusion            | -     | -      | PASS   | PASS | PASS | PASS | PASS |

| -                     | Unit  | Req.   | Result |      |      |      |      |
|-----------------------|-------|--------|--------|------|------|------|------|
| Test Item(s)          | -     | -      | 6      | 7    | 8    | 9    | 10   |
| Category Type         | -     | III    | III    | III  | III  | III  | III  |
| Aluminium (Al)        | mg/kg | 28130  | 25     | 184  | 209  | ND   | 30   |
| Antimony (Sb)         | mg/kg | 560    | ND     | ND   | ND   | ND   | ND   |
| Arsenic (As)          | mg/kg | 47     | ND     | ND   | ND   | ND   | ND   |
| Barium (Ba)           | mg/kg | 18750  | ND     | ND   | 180  | 109  | 99   |
| Boron (B)             | mg/kg | 15000  | ND     | ND   | ND   | ND   | ND   |
| Cadmium (Cd)          | mg/kg | 17     | ND     | ND   | ND   | ND   | ND   |
| Chromium III (Cr III) | mg/kg | 460    | 0.20   | 2.32 | 0.87 | 0.47 | 0.43 |
| Chromium VI (Cr VI)   | mg/kg | 0.053  | ND     | ND   | ND   | ND   | ND   |
| Cobalt (Co)           | mg/kg | 130    | ND     | ND   | ND   | ND   | ND   |
| Copper (Cu)           | mg/kg | 7700   | ND     | ND   | ND   | ND   | ND   |
| Lead (Pb)             | mg/kg | 23     | 1.50   | ND   | ND   | ND   | ND   |
| Manganese (Mn)        | mg/kg | 15000  | 30     | ND   | ND   | ND   | ND   |
| Mercury (Hg)          | mg/kg | 94     | ND     | ND   | ND   | ND   | ND   |
| Nickel (Ni)           | mg/kg | 930    | ND     | ND   | ND   | ND   | ND   |
| Selenium (Se)         | mg/kg | 460    | ND     | ND   | ND   | ND   | ND   |
| Strontium (Sr)        | mg/kg | 56000  | ND     | ND   | ND   | 13   | ND   |
| Tin (Sn)              | mg/kg | 180000 | ND     | ND   | 1.50 | ND   | 2.00 |
| Organic tin           | mg/kg | 12     | ND     | ND   | ND   | ND   | ND   |
| Zinc (Zn)             | mg/kg | 46000  | ND     | ND   | ND   | ND   | ND   |
| Conclusion            | -     | -      | PASS   | PASS | PASS | PASS | PASS |

### Note:

- mg/kg = milligram per kilogram
- ND = Not Detected
- Reporting limit for Cr (III), Cr (VI) = 0.02 mg/kg, and for Tin and Organic Tin = 0.9 mg/kg
- Reporting limit for Pb = 1.0 mg/kg, for As, Cd = 0.5 mg/kg
- Reporting limit for Al, Sb, Ba B, Co, Hg, Cu, Mn, Ni, Se, Sr, Zn = 10.0 mg/kg
- Confirmation test of chromium (III) is not required in case of chromium does not exceed their requirements as specified in EN 71-3:2019.



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**END OF REPORT**

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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.

