



# TEST REPORT

**Report No. 010221110119**

Dated DEC 07, 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 30/11/2021

**Test Period** : FROM 30/11/2021 TO 07/12/2021

**Sample Description** : MEMO GAME

**Product Code** : 4128

**Age Grade** : 3Y – 99Y

**Manufacturer** : /

**Country of Destination** : /

**Country of Origin** : THAILAND

| 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:

GIC TESTING & INSPECTION SERVICES

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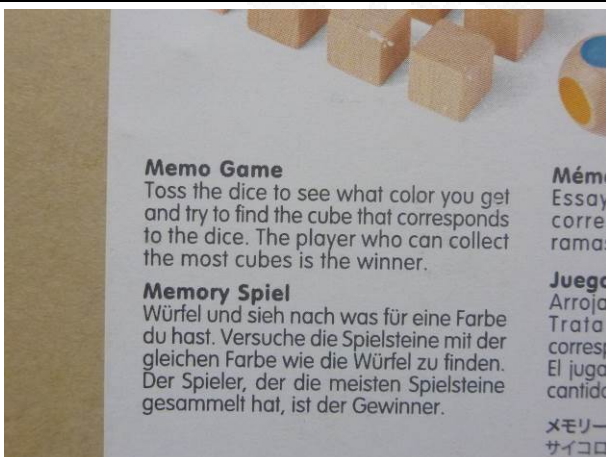
**PREPARED BY:**

**EDMUND YAP**  
**LABORATORY MANAGER**

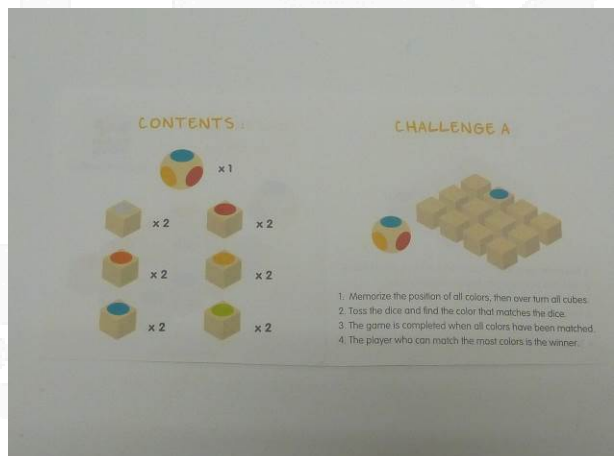
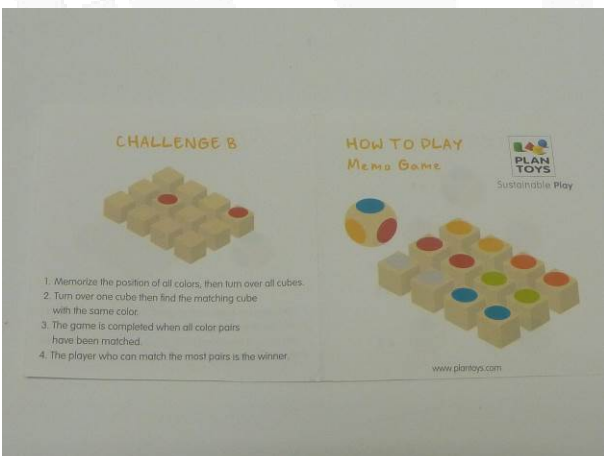
**APPROVED BY:**

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

## 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:** 4128 MEMO GAME

| <u>Components</u>                                         | <u>Report Number</u> | <u>Date of Issue</u> |
|-----------------------------------------------------------|----------------------|----------------------|
| <u>EN 71-3:2019+A1:2021 Migration of Certain Elements</u> |                      |                      |
| SOLID WOOD                                                | 010221060154         | 01 Jul 2021          |
| LACQUER COATING ON WOOD                                   | 010221060151         | 01 Jul 2021          |
| YELLOW COATING ON WOOD                                    | 010221070114         | 16 Jul 2021          |
| GRAY COATING ON WOOD                                      | 120120082            | 18 Dec 2020          |
| BLUE COATING ON WOOD                                      | 120120125            | 30 Dec 2020          |
| LIGHT GREEN COATING ON WOOD                               | 010221080096         | 06 Sep 2021          |
| RED COATING ON WOOD                                       | 010221060152         | 01 Jul 2021          |
| ORANGE COATING ON WOOD                                    | 010121020068         | 24 Feb 2021          |





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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.

| Test Item(s) | Item / Component Description(s) |
|--------------|---------------------------------|
| 1            | 4128 MEMO GAME                  |

| Clause    | Requirement                                                        | Result |
|-----------|--------------------------------------------------------------------|--------|
|           |                                                                    | 1      |
| 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                                          | M      |
| 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 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                                                    | NA     |
| 4.20      | Acoustics                                                          | NA     |
| 4.20.2.2  | Close-to-the-ear toys                                              | NA     |
| 4.20.2.3  | Table-top or floor toys                                            | NA     |
| 4.20.2.4  | Hand-held toys                                                     | NA     |
| 4.20.2.5  | Toys using headphones or earphones                                 | NA     |
| 4.20.2.6  | Rattles                                                            | NA     |
| 4.20.2.7  | Squeeze toys                                                       | NA     |
| 4.20.2.8  | Pull-along or push toys                                            | NA     |
| 4.20.2.9  | Percussion toys                                                    | NA     |
| 4.20.2.10 | Wind toys                                                          | NA     |
| 4.20.2.11 | Cap-firing toys                                                    | NA     |
| 4.20.2.12 | Voice toys                                                         | 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



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## TEST RESULT(S): (Continued)

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

Test Method : Reference to ISO 8124-8:2016.

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

### EN 71-2:2020 - Flammability

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

| Test Item(s) | Item / Component Description(s) |
|--------------|---------------------------------|
| 1            | 4128 MEMO GAME                  |

| 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 BS EN 71-3:2019+A1:2021 Analysis by ICP-MS.

| Test Item(s) | Item / Component Description(s) |
|--------------|---------------------------------|
| 1            | SOLID WOOD                      |
| 2            | LACQUER COATING ON WOOD         |
| 3            | YELLOW COATING ON WOOD          |
| 4            | GRAY COATING ON WOOD            |
| 5            | BLUE COATING ON WOOD            |
| 6            | LIGHT GREEN COATING ON WOOD     |
| 7            | RED COATING ON WOOD             |
| 8            | ORANGE COATING ON WOOD          |

|                                                                                   |              |                                                                                                                          |
|-----------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------|
| 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     | ND   | 40   | ND   | 209  |
| 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   | ND   | ND   | 180  |
| 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    | 0.04   | 2.63 | 0.5  | 0.04 | 0.87 |
| 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  | 16     | ND   | 11   | 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   | ND   | ND   |
| Tin (Sn)              | mg/kg | 180000 | ND     | ND   | ND   | ND   | 1.5  |
| Organic tin           | mg/kg | 12     | ND     | ND   | ND   | ND   | ND   |
| Zinc (Zn)             | mg/kg | 46000  | ND     | ND   | ND   | 473  | ND   |
| Conclusion            | -     | -      | PASS   | PASS | PASS | PASS | PASS |

| -                     | Unit  | Req.   | Result |      |      |
|-----------------------|-------|--------|--------|------|------|
| Test Item(s)          | -     | -      | 6      | 7    | 8    |
| Category Type         | -     | III    | III    | III  | III  |
| Aluminium (Al)        | mg/kg | 28130  | ND     | 116  | 88   |
| Antimony (Sb)         | mg/kg | 560    | ND     | ND   | ND   |
| Arsenic (As)          | mg/kg | 47     | ND     | ND   | ND   |
| Barium (Ba)           | mg/kg | 18750  | ND     | 285  | 193  |
| Boron (B)             | mg/kg | 15000  | ND     | ND   | ND   |
| Cadmium (Cd)          | mg/kg | 17     | ND     | ND   | ND   |
| Chromium III (Cr III) | mg/kg | 460    | 0.76   | 0.78 | 0.48 |
| Chromium VI (Cr VI)   | mg/kg | 0.053  | ND     | ND   | ND   |
| Cobalt (Co)           | mg/kg | 130    | ND     | ND   | ND   |
| Copper (Cu)           | mg/kg | 7700   | ND     | ND   | ND   |
| Lead (Pb)             | mg/kg | 23     | 1.06   | ND   | ND   |
| Manganese (Mn)        | mg/kg | 15000  | 10     | ND   | ND   |
| Mercury (Hg)          | mg/kg | 94     | ND     | ND   | ND   |
| Nickel (Ni)           | mg/kg | 930    | ND     | ND   | ND   |
| Selenium (Se)         | mg/kg | 460    | ND     | ND   | ND   |
| Strontium (Sr)        | mg/kg | 56000  | ND     | ND   | ND   |
| Tin (Sn)              | mg/kg | 180000 | ND     | 1.97 | 1.37 |
| Organic tin           | mg/kg | 12     | ND     | ND   | ND   |
| Zinc (Zn)             | mg/kg | 46000  | 13     | ND   | ND   |
| Conclusion            | -     | -      | 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+A1:2021.





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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.

