



# TEST REPORT

**Report No. 010121030079R1**

Dated NOV 30, 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 30/03/2021

**Test Period** : FROM 30/03/2021 TO 05/04/2021

**Sample Description** : HAND SIGN NUMBER 1-10

**Product Code** : 5655

**Age Grade** : 2Y+

**Manufacturer** : /

**Country of Destination** : /

**Country of Origin** : THAILAND

*\*Report was revised as per client request and shall supersede Report# 010121030079, dated 05 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:

GIC TESTING & INSPECTION SERVICES

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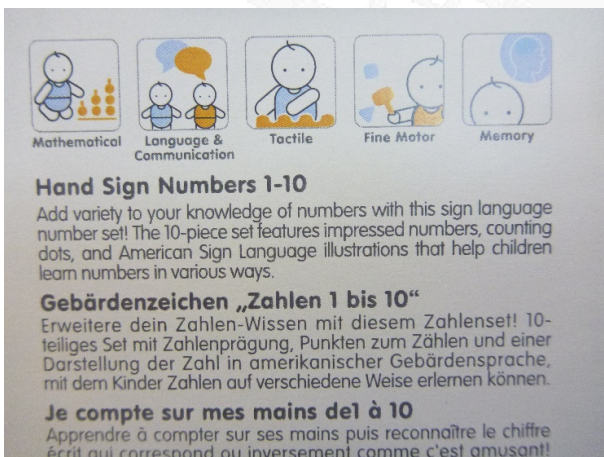
**PREPARED BY:**

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

**APPROVED BY:**

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

## SAMPLE PHOTO





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## 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:** 5655 Hand Sign Numbers 1-10

## Components

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

	<u>Report Number</u>	<u>Date of Issue</u>
Lacquer coating on wood	120070120	23 JUL 2020
Brown coating on sawdust	120070122	24 JUL 2020
Sawdust wood	120070115	23 JUL 2020
Red coating on sawdust	010121010095	29 JAN 2021
Blue coating on sawdust	010121010097	29 JAN 2021
Yellow coating on sawdust	120120086	18 DEC 2020
Purple coating on sawdust	010121010099	29 JAN 2021
Dark green coating on sawdust	010121010097	29 JAN 2021
Orange coating on sawdust	010121010099	29 JAN 2021
Light blue coating on sawdust	010121010098	29 JAN 2021
Light yellow coating on sawdust	010121010096	29 JAN 2021
Pink coating on sawdust	010121010098	29 JAN 2021
Light green coating on sawdust	010121010096	29 JAN 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.

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	M
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
2Y+	2Y+



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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	5655 Hand Sign Number 1-10

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	Lacquer coating on wood
2	Brown coating on sawdust
3	Sawdust wood
4	Red coating on sawdust
5	Blue coating on sawdust
6	Yellow coating on sawdust
7	Purple coating on sawdust
8	Dark green coating on sawdust
9	Orange coating on sawdust
10	Light blue coating on sawdust
11	Light yellow coating on sawdust
12	Pink coating on sawdust
13	Light green coating on sawdust

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	30	ND	140	323
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	99	ND	ND	ND
Boron (B)	mg/kg	15000	ND	ND	10	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	0.11	0.43	0.07	0.14	0.19
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	ND	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	2.00	ND	ND	ND
Organic tin	mg/kg	12	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	ND	ND	ND	119	112
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	ND	214	127	112	265
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	ND
Boron (B)	mg/kg	15000	21	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	ND	0.09	0.04	0.08	0.11
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	14	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	ND	ND
Tin (Sn)	mg/kg	180000	ND	ND	ND	ND	ND
Organic tin	mg/kg	12	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	ND	142	73	85	97
Conclusion	-	-	PASS	PASS	PASS	PASS	PASS





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## TEST RESULT(S): (Continued)

-	Unit	Req.	Result		
Test Item(s)	-	-	11	12	13
Category Type	-	III	III	III	III
Aluminium (Al)	mg/kg	28130	180	268	175
Antimony (Sb)	mg/kg	560	ND	ND	ND
Arsenic (As)	mg/kg	47	ND	ND	ND
Barium (Ba)	mg/kg	18750	ND	ND	ND
Boron (B)	mg/kg	15000	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	0.10	0.39	0.12
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	ND	ND	ND
Manganese (Mn)	mg/kg	15000	ND	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	ND	ND
Organic tin	mg/kg	12	ND	ND	ND
Zinc (Zn)	mg/kg	46000	145	163	43
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.

## 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.