



TEST REPORT

Report No. 010224010174R1

DATED: 11 MARCH 2025

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

Buyer : /

Sample Description : MARINA BLOCK

Item No. : 5545

SKU No. : /

Model / Style : /

Client Specified Age Grade : 18M+

Manufacturer : /

Country of Origin : THAILAND

Country of Destination : /

Test Sample Received : RECEIVED 15/03/2024

Test Period : FROM 15/03/2024 TO 25/03/2024

Report was revised as per client request and shall supersede Report # 010224010174, dated 26 March 2024

TEST REQUESTED	CONCLUSION	REMARK
EN 71-1:2014+A1:2018 – PHYSICAL AND MECHANICAL PROPERTIES	PASS	-
EN 71-2:2020 – FLAMMABILITY	PASS	-
EN 71-3:2019+A2:2024 – MIGRATION OF CERTAIN ELEMENTS	PASS	-

Remark:

1. The sample is tested "18M+" as per client requested.
2. The Labeled Age Grade is 18M+.

For technical enquiries or any other concerns,
please contact:

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A collection of wooden geometric toys is displayed on a light-colored surface. The toys are organized into two main groups. The left group includes two red semi-circular blocks, a dark blue cube, two red cylindrical blocks, a red square block, a brown triangular block, a blue triangular block, a yellow triangular block, a dark red square block, and two blue curved blocks. The right group features a light wood square block, a light wood cylindrical block with a hole, a light wood square block with a hole, four rectangular blocks in light, grey, and dark grey, a light wood cylindrical block, a light wood square block with a hole, a light wood square block with four black squares, and several light wood rectangular blocks of various sizes.



SAMPLE PHOTO



Marina Blocks
5545
18m+

Marina Blocks
5545
18m+



5545
Marina Blocks
18m+



ISO 9001, ISO 14001, ISO 45001, SA 8000 Certified



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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: 5545 MARINA BLOCK

<u>Components</u>	<u>Report Number</u>	<u>Date of Issue</u>
<u>EN 71-3:2019+A2:2024 Migration of Certain Elements</u>		
1 SOLID WOOD	010223060067	20-Jun-23
2 BLUE COATING ON WOOD	010224020091	7-Mar-24
3 ORANGE COATING ON WOOD	010223120127	22-Jan-24
4 YELLOW COATING ON WOOD	010223120160	22-Jan-24
5 CLEAR COATING ON WOOD	010223060081	27-Jun-23
6 WHITE COATING ON WOOD	010223040051	26-Apr-23
7 LIGHT GRAY COATING ON WOOD	010223120161	22-Jan-24
8 RED COATING ON WOOD	010223120128	22-Jan-24
9 BROWN COATING ON WOOD	010223120130	22-Jan-24
10 DARK GRAY COATING ON WOOD	010223060073	23-Jun-23
11 LIGHT BROWN COATING ON WOOD	010223120132	22-Jan-24
12 DARK BLUE COATING ON WOOD	010224010337R1	4-Mar-24



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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	M
4.8	Points and metallic wires	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

NM = Not Meet

NA = Not Applicable

R = Refer to Comment Section

NR = Not Requested

NT = Not Tested

NP = Not Present

EN 71-2:2020 - Flammability

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

Test Item(s)	Item / Component Description(s)
1	5545 MARINA BLOCK

Subclause	Requirement	Result
4.1	General requirement	PASS
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys	NA

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



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TEST RESULT(S): (Continued)

EN 71-3:2019+A2:2024 – 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	BLUE COATING ON WOOD
3	ORANGE COATING ON WOOD
4	YELLOW COATING ON WOOD
5	CLEAR COATING ON WOOD
6	WHITE COATING ON WOOD
7	LIGHT GRAY COATING ON WOOD
8	RED COATING ON WOOD
9	BROWN COATING ON WOOD
10	DARK GRAY COATING ON WOOD
11	LIGHT BROWN COATING ON WOOD
12	DARK BLUE 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

Test Item(s)	Unit	Permissible Limit	Result					
			1	2	3	4	5	6
Category Type	-	III	III	III	III	III	III	III
Aluminium (Al)	mg/kg	28130	ND	533	114	ND	434	296
Antimony (Sb)	mg/kg	560	ND	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	47	ND	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	18750	ND	ND	ND	ND	ND	19.8
Boron (B)	mg/kg	15000	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	0.0200	0.13	0.18	0.48	1.33	0.42
Chromium VI (Cr VI)	mg/kg	0.053	ND	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	23	ND	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	15000	40.0	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	94	ND	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	460	ND	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	56000	ND	ND	8.1	ND	ND	ND
Tin (Sn)	mg/kg	180000	ND	ND	ND	ND	1.62	ND
Organic tin	mg/kg	12	ND	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	ND	291	ND	ND	161	620
Conclusion	-	-	PASS	PASS	PASS	PASS	PASS	PASS



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TEST RESULT(S): (Continued)

Test Item(s)	Unit	Permissible Limit	Result					
			7	8	9	10	11	12
Category Type	-	III	III	III	III	III	III	III
Aluminium (Al)	mg/kg	28130	ND	119	135	268	129	2210
Antimony (Sb)	mg/kg	560	ND	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	47	ND	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	18750	ND	8.6	ND	ND	ND	5.5
Boron (B)	mg/kg	15000	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	0.0200	0.71	0.73	0.48	0.31	0.42
Chromium VI (Cr VI)	mg/kg	0.053	ND	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	23	ND	ND	1.2	ND	ND	ND
Manganese (Mn)	mg/kg	15000	40.0	5.8	ND	ND	ND	ND
Mercury (Hg)	mg/kg	94	ND	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	460	ND	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	56000	ND	ND	ND	ND	ND	ND
Tin (Sn)	mg/kg	180000	ND	ND	ND	0.92	ND	1.4
Organic tin	mg/kg	12	ND	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	ND	6.6	ND	555	ND	ND
Conclusion	-	-	PASS	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 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, Sn = 5.0 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+A2:2024.

Remark:

- Test Item(s) was (were) tested according to European Standard EN 71-3:2019+A2:2024, Section 8.
- Results of Cr III and Cr VI were reported as sum of soluble chromium content unless further verified.
- Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation unless further specified.
- The pH measured shall be reported after migration if it was outside the range of 1.1 to 1.3.

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.