



TEST REPORT

Report No. 010121040033R1

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 : STACKING RING

Product Code : 5681

Age Grade : 12M+

Manufacturer : /

Country of Destination : /

Country of Origin : THAILAND

**Report was revised as per client request and shall supersede Report# 010121040033, 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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SENIOR VICE PRESIDENT

SAMPLE PHOTO



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: 5681 Stacking Ring

Components

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

Report Number

Date of Issue

Solid wood	120070114	23 JUL 2020
Lacquer coating on wood	120070120	23 JUL 2020
White coating on wood	120070123	23 JUL 2020
Black coating on wood	120070123	23 JUL 2020
Blue sawdust (base tone299c)	120120121	30 DEC 2020
Light green sawdust	120120079	18 DEC 2020
Yellow sawdust	120120075	18 DEC 2020
Red sawdust	120070129	24 JUL 2020
Blue sawdust(tone320c)	120120080	18 DEC 2020
Light orange sawdust	120120077	18 DEC 2020
White-cream rubber	010121020056	24 FEB 2021
White elastic	120070128	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	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
12M+	12M+



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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	5681 Stacking Ring

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	Lacquer coating on wood
3	White coating on wood
4	Black coating on wood
5	Blue sawdust (base tone299c)
6	Light green sawdust
7	Yellow sawdust
8	Red sawdust
9	Blue sawdust(tone320c)
10	Light orange sawdust
11	White-cream rubber
12	White elastic

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	732	44	ND
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	ND	ND	ND	10	22
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	0.22	0.11	0.25	1.00	ND
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	ND	ND	11	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	3.75	ND	1.70	ND	ND
Organic tin	mg/kg	12	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	10	ND	47	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	338	70	ND	934	667
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	ND	11	12	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	0.46	0.47	ND	1.93	1.57
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	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	1.39	ND	ND	ND
Organic tin	mg/kg	12	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	10	ND	ND	15	ND
Conclusion	-	-	PASS	PASS	PASS	PASS	PASS



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TEST RESULT(S): (Continued)

-	Unit	Req.	Result	
Test Item(s)	-	-	11	12
Category Type	-	III	III	III
Aluminium (Al)	mg/kg	28130	ND	ND
Antimony (Sb)	mg/kg	560	ND	ND
Arsenic (As)	mg/kg	47	ND	ND
Barium (Ba)	mg/kg	18750	ND	ND
Boron (B)	mg/kg	15000	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND
Chromium III (Cr III)	mg/kg	460	0.07	0.02
Chromium VI (Cr VI)	mg/kg	0.053	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND
Lead (Pb)	mg/kg	23	ND	ND
Manganese (Mn)	mg/kg	15000	ND	ND
Mercury (Hg)	mg/kg	94	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND
Selenium (Se)	mg/kg	460	ND	ND
Strontium (Sr)	mg/kg	56000	ND	ND
Tin (Sn)	mg/kg	180000	ND	ND
Organic tin	mg/kg	12	ND	ND
Zinc (Zn)	mg/kg	46000	562	23
Conclusion	-	-	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.