



# TEST REPORT

Report No. 010224010180R2

DATED: 02 APRIL 2025

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

**Buyer** : /

**Sample Description** : MUSICAL SET

**Item No.** : 6422

**SKU No.** : /

**Model / Style** : /

**Client Specified Age Grade** : 12M+

**Manufacturer** : /

**Country of Origin** : THAILAND

**Country of Destination** : /

**Test Sample Received** : RECEIVED 09/04/2024

**Test Period** : FROM 09/04/2024 TO 22/04/2024

*\*Report was revised as per client request and shall supersede Report # 010224010180R1, dated 23 January 2025\**

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 "12M+" as per client requested.
2. The Labeled Age Grade is 12M+.

For technical enquiries or any other concerns,  
please contact:

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**PREPARED BY:**

**LUKMAN YUSOFF**

TESTING ENGINEER

**APPROVED BY:**

**ALEX LAU**

TECHNICAL DIRECTOR

**GIC Testing & Inspection Services Pte Ltd**

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Singapore 349245

**SAMPLE PHOTO**



## SAMPLE PHOTO



目録と海の中を遊べます。  
ミューズセットは、木製の箱に、カラフルな鍵盤が並び、音を出すことができます。手と目、耳、脳を同時に鍛えることができます。

**Musical Set**  
Musical Set is a wooden box with colorful keys that can be played with the hands and eyes. It can be used to exercise the hands, eyes, ears, and brain at the same time.

**Musical Set**  
Musical Set ist ein Kasten aus Holz mit bunten Tasten, die mit den Händen und den Augen gespielt werden können. Er kann verwendet werden, um die Hände, die Augen, die Ohren und das Gehirn gleichzeitig zu trainieren.

**Musical Set**  
Musical Set est un boîtier en bois avec des touches colorées qui peuvent être jouées avec les mains et les yeux. Il peut être utilisé pour exercer les mains, les yeux, les oreilles et le cerveau en même temps.

**Musical Set**  
Musical Set is a wooden box with colorful keys that can be played with the hands and eyes. It can be used to exercise the hands, eyes, ears, and brain at the same time.



6422  
**Musical Set**  
12m+



PLAN CREATIONS CO., LTD.  
Bangkok, Thailand 10110

Sustainably made in Thailand

ISO 9001, ISO 14001, ISO 45001, SA 8000 Certified  
FSC C011111, FSC C011111, FSC C011111

ASTM CE UK



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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:** 6422 MUSICAL SET

<u>Components</u>	<u>Report Number</u>	<u>Date of Issue</u>
<b><u>EN 71-3:2019+A2:2024 Migration of Certain Elements</u></b>		
1 SOLID WOOD	010223060067	20-Jun-23
2 PLYWOOD	010223060068	20-Jun-23
3 5290382 CREAM RUBBER	010223050021	16-May-23
4 WHITE ELASTIC	010224020099	5-Mar-24
5 5082923 RED FELT	010224010220	30-Jan-24
6 RED COATING ON METAL	010223050031	16-May-23
7 BLUE COATING ON METAL	010223050030	16-May-23
8 LIGHT BLUE COATING ON METAL	010224020154	7-Mar-24
9 GREEN COATING ON METAL	010223050028	16-May-23
10 LIGHT GREEN COATING ON METAL	010224020155	7-Mar-24
11 LIGHT YELLOW COATING ON METAL (Light)	010224020152	7-Mar-24
12 YELLOW COATING ON METAL (Dark)	010224020153	7-Mar-24
13 CLEAR COATING ON WOOD	010223060081	27-Jun-23
14 RED COATING ON WOOD	010223120128	22-Jan-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	M
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	See Results 4.20.2.9
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

### Sound-Producing Toys

Test Item(s)	6422 Musical Set		
	Permissible Limit	Unit	Result
Clause 4.20.2.9			
A-weighted time-averaged emission sound pressure level ( $L_{pA}$ )	85	dB	78
C-weighted peak emission sound pressure level ( $L_{pCpeak}$ )	130	dB	95
Conclusion	-	-	PASS



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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	6422 MUSICAL SET

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

NR = Not Requested

NM = Not Meet

NT = Not Tested

NA = Not Applicable

NP = Not Present

R = Refer to Comment Section

DNI = Did Not Ignite

### EN 71-3:2019+A2:2024 – Migration of Certain Elements

Test Method : Reference to BS EN 71-3:2019+A2:2024 Analysis by ICP-MS.

Test Item(s)	Item / Component Description(s)
1	SOLID WOOD
2	PLYWOOD
3	5290382 CREAM RUBBER
4	WHITE ELASTIC
5	5082923 RED FELT
6	RED COATING ON METAL
7	BLUE COATING ON METAL
8	LIGHT BLUE COATING ON METAL
9	GREEN COATING ON METAL
10	LIGHT GREEN COATING ON METAL
11	LIGHT YELLOW COATING ON METAL (Light)
12	YELLOW COATING ON METAL (Dark)
13	CLEAR COATING ON WOOD
14	RED 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)

Test Item(s)	Unit	Permissible Limit	Result			
			1	2	3	4
<b>Category Type</b>	-	III	III	III	III	III
Aluminium (Al)	mg/kg	28130	ND	ND	ND	67.3
Antimony (Sb)	mg/kg	560	ND	ND	ND	ND
Arsenic (As)	mg/kg	47	ND	1.37	ND	ND
Barium (Ba)	mg/kg	18750	ND	ND	ND	ND
Boron (B)	mg/kg	15000	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	0.0200	0.0200	0.12	0.08
Chromium VI (Cr VI)	mg/kg	0.053	ND	ND	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND	ND	ND
Lead (Pb)	mg/kg	23	ND	ND	ND	ND
Manganese (Mn)	mg/kg	15000	40.0	18.0	ND	ND
Mercury (Hg)	mg/kg	94	ND	ND	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND	ND	ND
Selenium (Se)	mg/kg	460	ND	ND	ND	ND
Strontium (Sr)	mg/kg	56000	ND	ND	ND	ND
Tin (Sn)	mg/kg	180000	ND	ND	ND	ND
Organic tin	mg/kg	12	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	ND	ND	1398	904
<b>Conclusion</b>	-	-	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

Test Item(s)	Unit	Permissible Limit	Result				
			5	6	7	8	9
<b>Category Type</b>	-	III	III	III	III	III	III
Aluminium (Al)	mg/kg	28130	ND	38	1875	35.4	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	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	0.04	1.29	1.47	2.0	0.53
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	14.1	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	6661	4903	5348	2511
<b>Conclusion</b>	-	-	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>





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## TEST RESULT(S): (Continued)

Test Item(s)	Unit	Permissible Limit	Result				
			10	11	12	13	14
Category Type	-	III	III	III	III	III	III
Aluminium (Al)	mg/kg	28130	42.2	60.2	14.0	ND	119
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	8.6	ND	ND	ND	8.6
Boron (B)	mg/kg	15000	ND	5.2	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	5.08	1.5	0.4	0.48	0.71
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	5.8
Mercury (Hg)	mg/kg	94	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	930	15.6	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	1.0	ND	ND	ND	ND
Organic tin	mg/kg	12	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	1851	23896	2466	ND	6.6
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 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.