

TEST REPORT

Report No. 010222010043

DATED: 18 MARCH 2022

Client : PLAN CREATIONS CO., LTD.

8 MOO 8, TRANG-PALIAN RD.,

YANTAKAO, TRANG 92140 THAILAND

Buyer : /

Sample Description : DETECTIVE SET

Item No. : 3701

SKU No. : /

Model / Style : /

Age Grade : 3Y+

Manufacturer : /

Country of Origin : THAILAND

Country of Destination : /

Test Sample Received : RECEIVED ON 11/03/2022

Test Period : FROM 11/03/2022 TO 18/03/2022

TEST REQUESTED	CONCLUSION	REMARK
ASTM F963-17 – STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY (MECHANICAL AND PHYSICAL PROPERTIES)	PASS	
ASTM F963-17 – STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY (FLAMMABILITY)	PASS	W.
CONSUMER PRODUCT SAFETY IMPROVEMENT ACT OF 2008 SECTION 101 CHILDREN'S PRODUCTS CONTAINING LEAD	PASS	-
CONSUMER PRODUCT SAFETY IMPROVEMENT ACT OF 2008 SECTION 101 CHILDREN'S PRODUCTS CONTAINING LEAD; LEAD PAINT RULE	PASS	- *
ILCS 410 ILCS 45 LEAD POISONING PREVENTION ACT SEC. 6(B) CHILDREN'S PRODUCTS (ILLINOIS)	PASS	-
ASTM F963-17 – STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY (SOLUBLE HEAVY METAL CONTENT)	PASS	# ·
CONSUMER PRODUCT SAFETY IMPROVEMENT ACT OF 2008 SECTION 108 PROHIBITION OF SALE OF CERTAIN PRODUCTS CONTAINING SPECIFIED PHTHALATES	PASS	#- 6
CALIFORNIA PROPOSITION 65 – PHTHALATE CONTENT	PASS	-63

GIC Testing & Inspection Services Pte Ltd

158 Kallang Way #08-01 Singapore 349245



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158 Kallang Way #08-01 Singapore 349245



DATED: 18 MARCH 2022

SAMPLE PHOTO













DATED: 18 MARCH 2022

















DATED: 18 MARCH 2022

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.

<u>Item Description:</u> 3701 DETECTIVE SET

Components	Report Number	Date of Issue
ASTM F963-17 Soluble Heavy Metals	<u>rtoport rtambor</u>	<u>Duto or locao</u>
RED ACRYLIC	010221050140	15 Jun 2021
LACQUER COATING ON WOOD	010221060151	01 Jul 2021
RED COATING ON WOOD	010221060152	01 Jul 2021
GRAY COATING ON WOOD	010221120064	23 Dec 2021
BLACK COATING ON WOOD	010121030125	26 Mar 2021
DARK GRAY FABRIC	010222030020	10 Mar 2022
LABEL FABRIC	010221060163	02 Jul 2021
MIRROR	010222010003	13 Jan 2022
WHITE PLASTIC (VELCRO)	010221060162	02 Jul 2021
ART PAPER (3701)	010221120068	30 Dec 2021
BROWN PLASTIC	010222010002	13 Jan 2022
BLACK FABRIC	010221040012	06 May 2021
BLACK RUBBER	010221050141	15 Jun 2021
WHITE COATING ON WOOD	010121030124	26 Mar 2021
DARK BROWN COATING ON WOOD	010221070114	16 Jul 2021
Lead in Surface Coating	040004000454	04 1 0004
LACQUER COATING ON WOOD	010221060151	01 Jul 2021
RED COATING ON WOOD	010221060152	01 Jul 2021
GRAY COATING ON WOOD BLACK COATING ON WOOD	010221120064	23 Dec 2021
	010121030125	26 Mar 2021
WHITE COATING ON WOOD	010121030124	26 Mar 2021
DARK BROWN COATING ON WOOD	010221070114	16 Jul 2021
Lead in Substrate		
RED ACRYLIC	010221050140	15 Jun 2021
DARK GRAY FABRIC	010222030020	10 Mar 2022
LABEL FABRIC	010221060163	02 Jul 2021
MIRROR	010222010003	13 Jan 2022
WHITE PLASTIC (VELCRO)	010221060162	02 Jul 2021
ART PAPER (3701)	010221120068	30 Dec 2021
BROWN PLASTIC	010222010002	13 Jan 2022
BLACK FABRIC	010221040012	06 May 2021
BLACK RUBBER	010221050141	15 Jun 2021
EL TOTT TOUR PLANTS OF THE PARTY OF THE PART	010221000111	10 0411 2021
Phthalate Content		
RED ACRYLIC	010221050140	15 Jun 2021
LACQUER COATING ON WOOD	010221060151	01 Jul 2021
RED COATING ON WOOD	010221060152	01 Jul 2021
GRAY COATING ON WOOD	010221120064	23 Dec 2021
BLACK COATING ON WOOD	010121030125	26 Mar 2021
MIRROR	010222010003	13 Jan 2022
WHITE PLASTIC (VELCRO)	010221060162	02 Jul 2021
BROWN PLASTIC	010222010002	13 Jan 2022
BLACK RUBBER	010221050141	15 Jun 2021
WHITE COATING ON WOOD	010121030124	26 Mar 2021
DARK BROWN COATING ON WOOD	010221070114	16 Jul 2021



DATED: 18 MARCH 2022

TEST RESULT(S):

<u>ASTM F963-17 – Standard Consumer Safety Specification for Toy Safety (Mechanical and Physical Properties)</u>

Test Method: Reference to ASTM F963-17.

Clause	Requirement	Result
4.1	Material quality	M
4.2	Flammability	See Results
4.3	Toxicology	See Results
4.4	Electrical/Thermal Energy	NA
4.5	Sound-Producing Toys	NA
4.6	Small Objects	NA
4.7	Accessible Edges	M
4.8	Projections	NA
4.9	Accessible Points	M
4.10	Wires or Rods	NA
4.11	Nails and Fasteners	NA
4.12	Plastic Film	NA
4.13	Folding Mechanisms and Hinges	NA
4.14	Cords, Straps, and Elastics	NA
4.15	Stability and Over-Load Requirements	NA
4.16	Confined Spaces	NA
4.17	Wheels, Tires, and Axles	NA
4.18	Holes, Clearance, and Accessibility of Mechanisms	NA
4.19	Simulated Protective Devices	NA
4.20	Pacifiers	NA
4.21	Projectile Toys	NA
4.22	Teethers and Teething Toys	NA
4.23	Rattles	NA
4.24	Squeeze Toys	NA
4.25	Battery-Operated Toys	NA
4.26	Toys Intended to be Attached to a Crib or Playpen	NA
4.27	Stuffed and Beanbag-Type Toys	NA
4.28	Stroller and Carriage Toys	NA
4.29	Art Materials	NA
4.30	Toy Gun Marking	NA
4.31	Balloons	NA
4.32	Certain Toys with Nearly Spherical Ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-Shaped Objects	NA
4.37	Yo Yo Elastic Tether Toys	NA
4.38	Magnets	NA
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding Materials	NA
4.41	Toy Chests	NA
5	Labeling Requirements	M
6	Instructional Literature	M
7	Producer's Markings	M

Note:

M = Meet NM = Not Meet NA = Not Applicable R = Refer to Comment Section

NR = Not Requested NT = Not Tested NP = Not Present



DATED: 18 MARCH 2022

TEST RESULT(S): (Continued)

ASTM F963-17 – Standard Consumer Safety Specification for Toy Safety (Flammability)

Test Method: Reference to ASTM F963-17 Annex A5 and A6.

Test Item(s)	Item / Component Description(s)				
1	3701 DETECTIVE SET				

Test Item(s)	Length of Major Axis (in)	Burn Length (in)	Burn Time (s)	Req. (in/s)	Burn Rate (in/s)	Result
1	5.2	DNI	DNI	0.1	DNI	DNI
Conclusion	-	-	-	-	-	PASS

-	Requirement (s)	Result	
Test Item(s)	- 38769335		
Burn Time (s)	> 3.5	DNI	
Conclusion	- 96933033	PASS	

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

Consumer Product Safety Improvement Act of 2008 Section 101 Children's Products Containing Lead

Test Method: Reference to CPSC-CH-E1002-08.3 Analysis by ICP-MS.

Test Item(s)	Item / Component Description(s)
1	RED ACRYLIC
2	DARK GRAY FABRIC
3	LABEL FABRIC
4	MIRROR
5	WHITE PLASTIC (VELCRO)
6	ART PAPER (3701)
7	BROWN PLASTIC
8	BLACK FABRIC
9	BLACK RUBBER

-	Unit	Req.	Result			Result				
Test Item(s)	- U	E 7	1	2	3	4	5			
Lead	mg/kg	100	ND ND ND ND							
Conclusion	-	4 - 1	PASS	PASS	PASS	PASS	PASS			

-	Unit	Req.	Result				
Test Item(s)	-	1	6 7 8 9				
Lead	mg/kg	100	ND	ND	ND	ND <	
Conclusion	-	- 0	PASS	PASS	PASS	PASS	

Note:

- mg/kg = milligrams per kilogram

- Reporting limit (Each): 2 mg/kg

ND = Not Detected



DATED: 18 MARCH 2022

TEST RESULT(S): (Continued)

Consumer Product Safety Improvement Act of 2008 Section 101 Children's Products Containing Lead; Lead Paint Rule

Test Method: Reference to CPSC-CH-E1003-09.1 Analysis by ICP-MS.

Test Item(s)	Item / Component Description(s)
1	LACQUER COATING ON WOOD
2	RED COATING ON WOOD
3	GRAY COATING ON WOOD
4	BLACK COATING ON WOOD
5	WHITE COATING ON WOOD
6	DARK BROWN COATING ON WOOD

-	Unit	Req.	Result					
Test Item(s)	-	- 30	1	2	3	4	5	6
Lead	mg/kg	90	ND	ND	2.1	ND	ND	ND
Conclusion	-	-4666	PASS	PASS	PASS	PASS	PASS	PASS

Note:

- mg/kg = milligrams per kilogram

- ND = Not Detected

- Reporting limit (Each): 2 mg/kg

410 ILCS 45 Lead Poisoning Prevention Act sec. 6(b) Children's Products (Illinois)

Test Method : Reference to CPSC-CH-E1002-08.3, CPSC-CH-E1003-09.1 Analysis by ICP-MS.

Test Item(s)	Item / Component Description(s)
1	RED ACRYLIC
2	LACQUER COATING ON WOOD
3	RED COATING ON WOOD
4	GRAY COATING ON WOOD
5	BLACK COATING ON WOOD
6	DARK GRAY FABRIC
7	LABEL FABRIC
8	MIRROR
9	WHITE PLASTIC (VELCRO)
10	ART PAPER (3701)
11	BROWN PLASTIC
12	BLACK FABRIC
13	BLACK RUBBER
14	WHITE COATING ON WOOD
15	DARK BROWN COATING ON WOOD

-	Unit	Req.	J 1 6		Result		
Test Item(s)	-	- 67	THIN Y	2	3	4	5
Total Lead (Pb)	mg/kg	40	ND	ND	ND	2.1	ND
Conclusion	-	-	PASS	PASS	PASS	PASS	PASS

-	Unit	Req.	20 11	71 18	Result		12K 1/
Test Item(s)	-	-	6	7	8	9	10
Total Lead (Pb)	mg/kg	40	ND	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS	PASS



DATED: 18 MARCH 2022

TEST RESULT(S): (Continued)

-	Unit	Req.			Result		
Test Item(s)	-	-	11	12	13	14	15
Total Lead (Pb)	mg/kg	40	ND	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS	PASS

Note:

- mg/kg = milligrams per kilogram

- ND = Not Detected

- Reporting limit (Each): 2 mg/kg

ASTM F963-17 - Standard Consumer Safety Specification for Toy Safety (Soluble Heavy Metal Content)

Test Method: Reference to ASTM F963-17 Analysis by ICP-MS.

Test Item(s)	Item / Component Description(s)
1	RED ACRYLIC
2	LACQUER COATING ON WOOD
3	RED COATING ON WOOD
4	GRAY COATING ON WOOD
5	BLACK COATING ON WOOD
6	DARK GRAY FABRIC
7	LABEL FABRIC
8	MIRROR
9	WHITE PLASTIC (VELCRO)
10	ART PAPER (3701)
11	BROWN PLASTIC
12	BLACK FABRIC
13	BLACK RUBBER
14	WHITE COATING ON WOOD
15	DARK BROWN COATING ON WOOD

-	Unit	Req.	1	4	Result	700	- / S// .
Test Item(s)	-	-	1	2	3	4	5
Antimony (Sb)	mg/kg	60	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	25	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	75	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	60	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	60	ND ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	500	ND	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS	PASS

-	Unit	Req.			Result		
Test Item(s)	-	-76	6	7	8	9	10
Antimony (Sb)	mg/kg	60	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	25	ND	ND	ND	ND	1.73
Barium (Ba)	mg/kg	1000	4.73	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	75	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	60	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	60	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	500	ND	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS	PASS



DATED: 18 MARCH 2022

TEST RESULT(S): (Continued)

-	Unit	Req.			Result		
Test Item(s)	-	-	11	12	13	14	15
Antimony (Sb)	mg/kg	60	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	25	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	ND	ND	ND	ND	64
Cadmium (Cd)	mg/kg	75	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	60	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	60	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	500	ND	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS	PASS

Note:

- mg/kg = milligrams per kilogram

Reporting limit (each) = 2 mg/kg

- ND = Not Detected

<u>Consumer Product Safety Improvement Act of 2008 Section 108 Prohibition of Sale of Certain Products</u> <u>Containing Specified Phthalates</u>

Test Method: Reference to CPSC-CH-C1001-09.4 Analysis by GC-MS.

Test Item(s)	Item / Component Description(s)
1	RED ACRYLIC
2	LACQUER COATING ON WOOD
3	RED COATING ON WOOD
4	GRAY COATING ON WOOD
5	BLACK COATING ON WOOD
6	MIRROR
7	WHITE PLASTIC (VELCRO)
8	BROWN PLASTIC
9	BLACK RUBBER
10	WHITE COATING ON WOOD
11	DARK BROWN COATING ON WOOD

-	Abbrev.	Unit	Req.	100		Result		
Test Item(s)	力 - 信息	1 -	1 1-100	1	2	3	4	5
Di-(2-ethylhexyl) phthalate	DEHP	%	0.1	ND	ND	ND	ND	ND
Di-butyl phthalate	DBP	%	0.1	ND	ND	ND	ND	ND
Benzyl butyl phthalate	BBP	%	0.1	ND	ND	ND	ND	ND
Di-iso-nonyl phthalate	DINP	%	0.1	ND	ND	ND	ND	ND
Di-iso-butyl phthalate	DIBP	%	0.1	ND	ND	ND	ND	ND
Di-n-pentyl phthalate	DPENP	%	0.1	ND	ND	ND	ND	ND
Di-n-hexyl phthalate	DHEXP	%	0.1	ND	ND	ND	ND	ND
Di-cyclohexyl phthalate	DCHP	%	0.1	ND	ND	ND	ND	ND
Conclusion		//- k	-	PASS	PASS	PASS	PASS	PASS



DATED: 18 MARCH 2022

TEST RESULT(S): (Continued)

-	Abbrev.	Unit	Req.	Result					
Test Item(s)	-	-	-	6	7	8	9	10	11
Di-(2-ethylhexyl) phthalate	DEHP	%	0.1	ND	ND	ND	ND	ND	ND
Di-butyl phthalate	DBP	%	0.1	ND	ND	ND	ND	ND	ND
Benzyl butyl phthalate	BBP	%	0.1	ND	ND	ND	ND	ND	ND
Di-iso-nonyl phthalate	DINP	%	0.1	ND	ND	ND	ND	ND	ND
Di-iso-butyl phthalate	DIBP	%	0.1	ND	ND	ND	ND	ND	ND
Di-n-pentyl phthalate	DPENP	%	0.1	ND	ND	ND	ND	ND	ND
Di-n-hexyl phthalate	DHEXP	%	0.1	ND	ND	ND	ND	ND	ND
Di-cyclohexyl phthalate	DCHP	%	0.1	ND	ND	ND	ND	ND	ND
Conclusion		-	-	PASS	PASS	PASS	PASS	PASS	PASS

Note:

- Reporting limit (Each): 0.01 %

- ND = Not Detected

ANNEX						
Compound	Abbrev.	CASRN	Compound	Abbrev.	CASRN	
Di-(2-ethylhexyl) phthalate	DEHP	117-81-7	Di-iso-butyl phthalate	DIBP	84-69-5	
Di-butyl phthalate	DBP	84-74-2	Di-n-pentyl phthalate	DPENP	84-61-7	
Benzyl butyl phthalate	BBP	85-68-7	Di-n-hexyl phthalate	DHEXP	28553-12-0 / 68515-48-0	
Di-iso-nonyl phthalate	DINP	131-18-0	Di-cyclohexyl phthalate	DCHP	84-75-3	

CASRN: Chemical Abstracts Service Registry Number

California Proposition 65 - Phthalate Content

Test Method: Reference to CPSC-CH-C1001-09.4 Analysis by GC-MS.

Test Item(s)	Item / Component	Description(s)
1	RED ACRYLIC	
2	LACQUER COATING ON WOOD	
3	RED COATING ON WOOD	
4	GRAY COATING ON WOOD	
5	BLACK COATING ON WOOD	No.
6	MIRROR	400
7	WHITE PLASTIC (VELCRO)	
8	BROWN PLASTIC	A A
9	BLACK RUBBER	PK
10	WHITE COATING ON WOOD	A.
11	DARK BROWN COATING ON WOOD	

-	Abbrev.	Unit	Req.	Result				
Test Item(s)	-0	1-7	341-	1	2	3	4	5
Benzyl butyl phthalate	BBP	%	0.1	ND	ND	ND	ND	ND
Di-butyl phthalate	DBP	%	0.1	ND	ND	ND	ND	ND
Di-(2-ethylhexyl) phthalate	DEHP	%	0.1	ND	ND	ND	ND	ND
Di-iso-decyl phthalate	DIDP	%	0.1	ND	ND	ND	ND	ND
Di-iso-nonyl phthalate	DINP	%	0.1	ND	ND	ND	ND	ND
Di-n-hexyl phthalate	DNHP	%	0.1	ND	ND	ND	ND	ND
Conclusion		_	-	PASS	PASS	PASS	PASS	PASS



DATED: 18 MARCH 2022

TEST RESULT(S): (Continued)

-	Abbrev.	Unit	Req.	Result					
Test Item(s)	-	-	-	6	7	8	9	10	11
Benzyl butyl phthalate	BBP	%	0.1	ND	ND	ND	ND	ND	ND
Di-butyl phthalate	DBP	%	0.1	ND	ND	ND	ND	ND	ND
Di-(2-ethylhexyl) phthalate	DEHP	%	0.1	ND	ND	ND	ND	ND	ND
Di-iso-decyl phthalate	DIDP	%	0.1	ND	ND	ND	ND	ND	ND
Di-iso-nonyl phthalate	DINP	%	0.1	ND	ND	ND	ND	ND	ND
Di-n-hexyl phthalate	DNHP	%	0.1	ND	ND	ND	ND	ND	ND
Conclusion		-	-	PASS	PASS	PASS	PASS	PASS	PASS

Note:

- Reporting limit (Each): 0.01 %

- ND = Not Detected

ANNEX								
Compound	Abbrev. CASRN		Compound	Abbrev.	CASRN			
Di-butyl phthalate	DBP	84-74-2	Di-iso-decyl phthalate	DIDP	68515-49-1 / 26761-40-0			
Benzyl butyl phthalate	BBP	85-68-7	Di-iso-nonyl phthalate	DINP	131-18-0			
Di-(2-ethylhexyl) phthalate	DEHP	117-81-7	Di-n-hexyl phthalate	DNHP	28553-12-0 / 68515-48-0			

CASRN: Chemical Abstracts Service Registry Number

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.