



# TEST REPORT

Report No. 010224010388R1

DATED: 23 JANUARY 2025

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

**Buyer** : /

**Sample Description** : ROLLER

**Item No.** : 5255

**SKU No.** : /

**Model / Style** : /

**Client Specified Age Grade** : 6M+

**Manufacturer** : /

**Country of Origin** : THAILAND

**Country of Destination** : /

**Test Sample Received** : RECEIVED 12/04/2024

**Test Period** : FROM 12/04/2024 TO 22/04/2024

*\*Report was revised and shall supersede Report # 010224010388, dated 22 April 2024.*

TEST REQUESTED	CONCLUSION	REMARK
ASTM F963-23 – STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY (MECHANICAL AND PHYSICAL PROPERTIES)	PASS	-
ASTM F963-23 – STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY (FLAMMABILITY)	PASS	-
CONSUMER PRODUCT SAFETY IMPROVEMENT ACT OF 2008 SECTION 101 (A)/ 15 U.S.C 1278A – TOTAL LEAD IN SUBSTRATE	PASS	-
CONSUMER PRODUCT SAFETY IMPROVEMENT ACT OF 2008 SECTION 101 (F)/ 16 CFR PART 1303 – TOTAL LEAD IN SURFACE COATING	PASS	-
ILCS 410 ILCS 45 LEAD POISONING PREVENTION ACT SEC. 6(B) CHILDREN'S PRODUCTS (ILLINOIS)	PASS	-
ASTM F963-23 – STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY (SOLUBLE HEAVY METAL CONTENT)	PASS	-
CONSUMER PRODUCT SAFETY IMPROVEMENT ACT OF 2008 SECTION 108/ 16 CFR PART 1307 - PHTHALATES	PASS	-
CALIFORNIA PROPOSITION 65 – PHTHALATE CONTENT	PASS	-

**GIC Testing & Inspection Services Pte Ltd**

158 Kallang Way #08-01  
Singapore 349245



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## Remark:

1. The sample is tested "6M+" as per client requested.
2. The Labeled Age Grade is 6M+.

For technical enquiries or any other concerns,  
please contact:

**GIC TESTING & INSPECTION SERVICES PTE LTD**

Tel: +65 6741 2260

Email: [services.sg@gicgrp.com](mailto:services.sg@gicgrp.com)

**PREPARED BY:**

A handwritten signature in black ink, appearing to read 'Wong Kok Leong', is placed over a white rectangular background.

**WONG KOK LEONG**

Laboratory Supervisor

**APPROVED BY:**

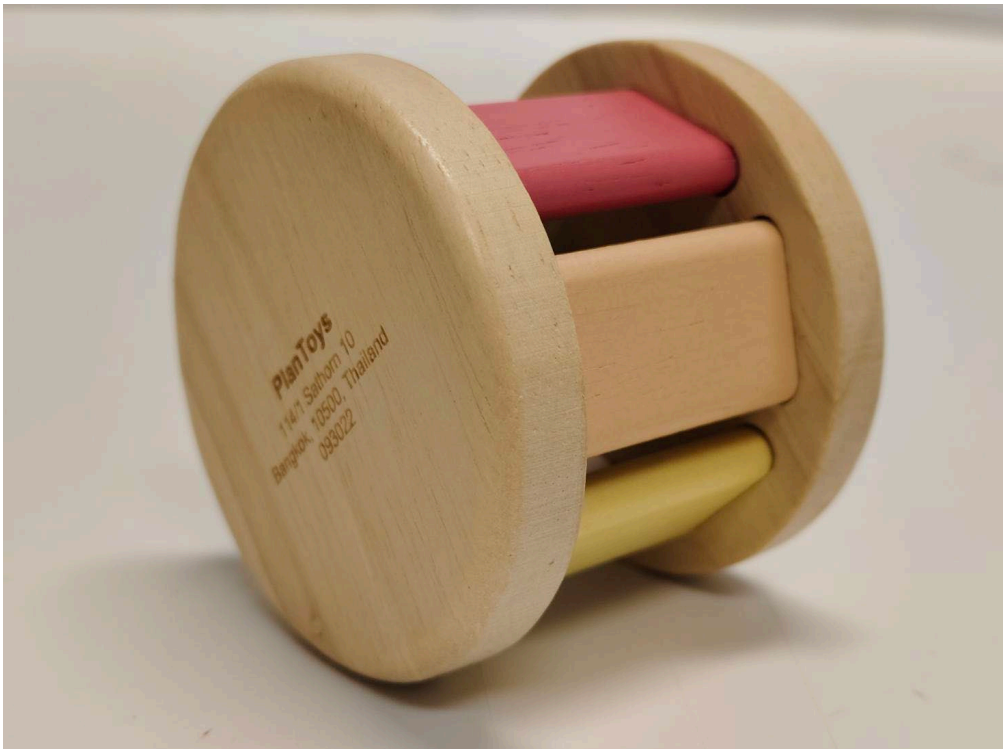
A handwritten signature in blue ink, appearing to read 'Suzen Chong', is placed over a white rectangular background.

**SUZEN CHONG**

Senior Vice President

GICG - ENABLING TRUST IN A CHANGING WORLD

SAMPLE PHOTO





## SAMPLE PHOTO





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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:** 5255 ROLLER

### Components

#### ASTM F963-23 Soluble Heavy Metals

		<u>Report Number</u>	<u>Date of Issue</u>
1	PINK COATING ON WOOD	010224030215	5-Apr-24
2	WHITE COATING ON WOOD	010223040051	26-Apr-23
3	CLEAR COATING ON WOOD	010223060081	27-Jun-23
4	LIGHT PURPLE COATING ON WOOD	010224010250	19-Feb-24
5	LIGHT ORANGE COATING ON WOOD	010224010251	19-Feb-24
6	LIGHT BLUE COATING ONWOOD	010223060080	23-Jun-23
7	LIGHT YELLOW COATING ON WOOD	010224020035	6-Mar-24

### Lead in Surface Coating

1	PINK COATING ON WOOD	010224030215	5-Apr-24
2	WHITE COATING ON WOOD	010223040051	26-Apr-23
3	CLEAR COATING ON WOOD	010223060081	27-Jun-23
4	LIGHT PURPLE COATING ON WOOD	010224010250	19-Feb-24
5	LIGHT ORANGE COATING ON WOOD	010224010251	19-Feb-24
6	LIGHT BLUE COATING ONWOOD	010223060080	23-Jun-23
7	LIGHT YELLOW COATING ON WOOD	010224020035	6-Mar-24

### Phthalate Content

1	PINK COATING ON WOOD	010224030215	5-Apr-24
2	WHITE COATING ON WOOD	010223040051	26-Apr-23
3	CLEAR COATING ON WOOD	010223060081	27-Jun-23
4	LIGHT PURPLE COATING ON WOOD	010224010250	19-Feb-24
5	LIGHT ORANGE COATING ON WOOD	010224010251	19-Feb-24
6	LIGHT BLUE COATING ONWOOD	010223060080	23-Jun-23
7	LIGHT YELLOW COATING ON WOOD	010224020035	6-Mar-24



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## TEST RESULT(S):

### ASTM F963-23 – Standard Consumer Safety Specification for Toy Safety (Mechanical and Physical Properties)

Test Method : Reference to ASTM F963-23.

Clause	Requirement	Result
4.1	Material quality	M
4.2	Flammability	See Results
4.3	Toxicology	M 4.3.5.1 (1) & (2); 4.3.5.2 (2) a & b; 4.3.8
4.4	Electrical/Thermal Energy	NA
4.5	Sound-Producing Toys	See Results 4.5.1.6
4.6	Small Objects	M
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

NR = Not Requested

NM = Not Meet

NT = Not Tested

NA = Not Applicable

NP = Not Present

R = Refer to Comment Section





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## TEST RESULT(S): (Continued)

### Sound-Producing Toys

Test Item(s)	5255 ROLLER		
Clause 4.5.1.6	Permissible Limit	Unit	Result
A-weighted equivalent sound pressure level ( $L_{Aeq}$ )	85	dB	77
C-weighted peak emission sound pressure level ( $L_{pCpeak}$ )	115	dB	80
Conclusion	-	-	PASS

## TEST RESULT(S): (Continued)

### Flammability For Solid/ Soft Toy

Test Method : Reference to ASTM F963-23 Annex A5

Test Item(s)	Item / Component Description(s)					
1	5255 ROLLER					

Test Item(s)	Length of Major Axis (in)	Burn Length (in)	Burn Time (s)	Regulatory Limit (in/s)	Burn Rate (in/s)	Result
1	2.5	0	5	0.1	DNI	PASS

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

### Consumer Product Safety Improvement Act Of 2008 Section 101 (f)/ 16 CFR Part 1303 – Total Lead In Surface Coating

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

Test Item(s)	Item / Component Description(s)
1	PINK COATING ON WOOD
2	WHITE COATING ON WOOD
3	CLEAR COATING ON WOOD
4	LIGHT PURPLE COATING ON WOOD
5	LIGHT ORANGE COATING ON WOOD
6	LIGHT BLUE COATING ONWOOD
7	LIGHT YELLOW COATING ON WOOD

Test Item(s)	Unit	Permissible Limit	Result		
			1	2	3
Lead (Pb)	mg/kg	90	ND	2.5	ND
Conclusion	-	-	PASS	PASS	PASS

Test Item(s)	Unit	Permissible Limit	Result			
			4	5	6	7
Lead (Pb)	mg/kg	90	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS

Note:

- mg/kg = milligrams per kilogram

- ND = Not Detected

- Reporting limit (Each): 2 mg/kg



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## TEST RESULT(S): (Continued)

### 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	PINK COATING ON WOOD
2	WHITE COATING ON WOOD
3	CLEAR COATING ON WOOD
4	LIGHT PURPLE COATING ON WOOD
5	LIGHT ORANGE COATING ON WOOD
6	LIGHT BLUE COATING ONWOOD
7	LIGHT YELLOW COATING ON WOOD

Test Item(s)	Unit	Permissible Limit	Result		
			1	2	3
Lead (Pb) in coating	mg/kg	90*	ND	2.5	ND
Conclusion	-	-	PASS	PASS	PASS

Test Item(s)	Unit	Permissible Limit	Result			
			4	5	6	7
Lead (Pb) in coating	mg/kg	90*	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS

Note:

- mg/kg = milligrams per kilogram
- Reporting limit (Each): 2 mg/kg

- ND = Not Detected
- \* Result over 40 mg/kg – 90 mg/kg in coating and 40 mg/kg – 100 mg/kg in substrate, warning label must be added





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## TEST RESULT(S): (Continued)

### ASTM F963-23 – Standard Consumer Safety Specification for Toy Safety (Soluble Heavy Metal Content)

Test Method : Reference to ASTM F963-23 Analysis by ICP-MS.

Test Item(s)	Item / Component Description(s)
1	PINK COATING ON WOOD
2	WHITE COATING ON WOOD
3	CLEAR COATING ON WOOD
4	LIGHT PURPLE COATING ON WOOD
5	LIGHT ORANGE COATING ON WOOD
6	LIGHT BLUE COATING ONWOOD
7	LIGHT YELLOW COATING ON WOOD

Soluble Element(s)	As	Ba	Cd	Cr	Hg	Pb	Sb	Se
Maximum Allowable Limit (mg/kg)	25	1 000	75	60	60	90	60	500
Analytical Correction (%)	60	30	30	30	50	30	60	60

-	Unit	Result		
Test Item(s)	-	1	2	3
Parameter	-	-	-	-
Arsenic (As)	mg/kg	ND	ND	ND
Barium (Ba)	mg/kg	ND	ND	ND
Cadmium (Cd)	mg/kg	ND	ND	ND
Chromium (Cr)	mg/kg	ND	ND	ND
Mercury (Hg)	mg/kg	ND	ND	ND
Lead (Pb)	mg/kg	ND	ND	ND
Antimony (Sb)	mg/kg	ND	ND	ND
Selenium (Se)	mg/kg	ND	ND	ND
Conclusion	-	PASS	PASS	PASS

-	Unit	Result			
Test Item(s)	-	4	5	6	7
Parameter	-	-	-	-	-
Arsenic (As)	mg/kg	ND	ND	ND	ND
Barium (Ba)	mg/kg	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	ND	ND	ND	ND
Chromium (Cr)	mg/kg	ND	ND	ND	ND
Mercury (Hg)	mg/kg	ND	ND	ND	ND
Lead (Pb)	mg/kg	ND	ND	ND	ND
Antimony (Sb)	mg/kg	ND	ND	ND	ND
Selenium (Se)	mg/kg	ND	ND	ND	ND
Conclusion	-	PASS	PASS	PASS	PASS

Note:

- mg/kg = milligrams per kilogram
- ND = Not Detected
- Reporting limit (each) = 2 mg/kg



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## TEST RESULT(S): (Continued)

### Consumer Product Safety Improvement Act Of 2008 Section 108/ 16 CFR Part 1307 - Phthalates

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

Test Item(s)	Item / Component Description(s)
1	PINK COATING ON WOOD
2	WHITE COATING ON WOOD
3	CLEAR COATING ON WOOD
4	LIGHT PURPLE COATING ON WOOD
5	LIGHT ORANGE COATING ON WOOD
6	LIGHT BLUE COATING ONWOOD
7	LIGHT YELLOW COATING ON WOOD

-	Abbrev.	Unit	Permissible Limit	Result		
Test Item(s)	-	-	-	1	2	3
Di-iso-butyl phthalate	DIBP	%	0.1	ND	ND	ND
Di-butyl phthalate	DBP	%	0.1	ND	ND	ND
Di-n-pentyl phthalate	DPENP	%	0.1	ND	ND	ND
Di-n-hexyl phthalate	DHEXP	%	0.1	ND	ND	ND
Di-cyclohexyl phthalate	DCHP	%	0.1	ND	ND	ND
Di-(2-ethylhexyl) phthalate	DEHP	%	0.1	ND	ND	ND
Benzyl butyl phthalate	BBP	%	0.1	ND	ND	ND
Di-iso-nonyl phthalate	DINP	%	0.1	ND	ND	ND
Di-n-octyl phthalate	DNOP	%	0.1	ND	ND	ND
Di-iso-decyl phthalate	DIDP	%	0.1	ND	ND	ND
Conclusion		-	-	PASS	PASS	PASS

-	Abbrev.	Unit	Permissible Limit	Result			
Test Item(s)	-	-	-	1	2	3	4
Di-iso-butyl phthalate	DIBP	%	0.1	ND	ND	ND	ND
Di-butyl phthalate	DBP	%	0.1	ND	ND	ND	ND
Di-n-pentyl phthalate	DPENP	%	0.1	ND	ND	ND	ND
Di-n-hexyl phthalate	DHEXP	%	0.1	ND	ND	ND	ND
Di-cyclohexyl phthalate	DCHP	%	0.1	ND	ND	ND	ND
Di-(2-ethylhexyl) phthalate	DEHP	%	0.1	ND	ND	ND	ND
Benzyl butyl phthalate	BBP	%	0.1	ND	ND	ND	ND
Di-iso-nonyl phthalate	DINP	%	0.1	ND	ND	ND	ND
Di-n-octyl phthalate	DNOP	%	0.1	ND	ND	ND	ND
Di-iso-decyl phthalate	DIDP	%	0.1	ND	ND	ND	ND
Di-n-octyl phthalate	DNOP	%	0.1	ND	ND	ND	ND
Di-iso-decyl phthalate	DIDP	%	0.1	ND	ND	ND	ND
Conclusion		-	-	PASS	PASS	PASS	PASS

Note:

- Reporting limit (Each): 0.01 %
- ND = Not Detected
- Phthalate requirements are quoted in accordance with 16 CFR 1307, while Di-n-octyl phthalate (DNOP) and Di-iso-decyl phthalate (DIDP) were tested upon client request.

ANNEX					
Compound	Abbrev.	CASRN	Compound	Abbrev.	CASRN
Di-iso-butyl phthalate	DIBP	84-69-5	Di-iso-nonyl phthalate	DINP	28553-12-0 / 68515-48-0
Di-butyl phthalate	DBP	84-74-2	Di-iso-decyl phthalate	DIDP	68515-49-1 / 26761-40-0
Di-n-pentyl phthalate	DPENP	131-18-0	Di-n-hexyl phthalate	DHEXP	84-75-3
Benzyl butyl phthalate	BBP	85-68-7	Di-n-octyl phthalate	DNOP	117-84-0
Di-(2-ethylhexyl) phthalate	DEHP	117-81-7	Di-cyclohexyl phthalate	DCHP	84-61-7

CASRN: Chemical Abstracts Service Registry Number



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DATED: 23 JANUARY 2025

## TEST RESULT(S): (Continued)

### 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	PINK COATING ON WOOD
2	WHITE COATING ON WOOD
3	CLEAR COATING ON WOOD
4	LIGHT PURPLE COATING ON WOOD
5	LIGHT ORANGE COATING ON WOOD
6	LIGHT BLUE COATING ONWOOD
7	LIGHT YELLOW COATING ON WOOD

-	Abbrev.	Unit	Permissible Limit	Result		
Test Item(s)	-	-	-	1	2	3
Benzyl butyl phthalate	BBP	%	0.1	ND	ND	ND
Di-butyl phthalate	DBP	%	0.1	ND	ND	ND
Di-(2-ethylhexyl) phthalate	DEHP	%	0.1	ND	ND	ND
Di-iso-nonyl phthalate	DINP	%	0.1	ND	ND	ND
Di-iso-decyl phthalate	DIDP	%	0.1	ND	ND	ND
Di-n-hexyl phthalate	DHEXP / DnHP	%	0.1	ND	ND	ND
Conclusion		-	-	PASS	PASS	PASS

-	Abbrev	Unit	Permissible Limit	Result			
Test Item(s)	-	-	-	4	5	6	7
Benzyl butyl phthalate	BBP	%	0.1	ND	ND	ND	ND
Di-butyl phthalate	DBP	%	0.1	ND	ND	ND	ND
Di-(2-ethylhexyl) phthalate	DEHP	%	0.1	ND	ND	ND	ND
Di-iso-nonyl phthalate	DINP	%	0.1	ND	ND	ND	ND
Di-iso-decyl phthalate	DIDP	%	0.1	ND	ND	ND	ND
Di-n-hexyl phthalate	DHEXP / DnHP	%	0.1	ND	ND	ND	ND
Conclusion		-	-	PASS	PASS	PASS	PASS

Note:

- Reporting limit (Each): 0.01 %

- ND = Not Detected

ANNEX					
Compound	Abbrev.	CAS no.	Compound	Abbrev.	CAS no.
Di-butyl phthalate	DBP	84-74-2	Di-(2-ethylhexyl) phthalate	DEHP	117-81-7
Benzyl butyl phthalate	BBP	85-68-7	Di-n-hexyl phthalate	DHEXP / DnHP	84-75-3
Di-iso-nonyl phthalate	DINP	28553-12-0	Di-iso-decyl phthalate	DIDP	26761-40-0

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.