



# TEST REPORT

Report No. 010224120101

DATED: 21 JANUARY 2025

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

**Buyer** : /

**Sample Description** : SET OF TRAFFIC SIGNS & LIGHTS

**Item No.** : 6203

**SKU No.** : /

**Model / Style** : /

**Client Specified Age Grade** : 3Y+

**Manufacturer** : /

**Country of Origin** : THAILAND

**Country of Destination** : /

**Test Sample Received** : RECEIVED 15/01/2025

**Test Period** : FROM 15/01/2025 TO 21/01/2025

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 (F)/ 16 CFR PART 1303 / ASTM F963-23 STANDARD CONSUMER SAFETY SPECIFICATION ON TOY SAFETY SECTION 4.3.5.1(1) – 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 ON TOY SAFETY SECTION 4.3.5.1(2) SOLUBLE HEAVY METALS CONTENT IN SURFACE COATING	PASS	-
CONSUMER PRODUCT SAFETY IMPROVEMENT ACT OF 2008 SECTION 108/ 16 CFR PART 1307 / ASTM F963-23 STANDARD CONSUMER SAFETY SPECIFICATION ON TOY SAFETY SECTION 4.3.8 - PHTHALATES	PASS	-
CALIFORNIA PROPOSITION 65 – PHTHALATE CONTENT	PASS	-

**GIC Testing & Inspection Services Pte Ltd**

158 Kallang Way #08-01  
Singapore 349245



# Report No. 010224120101

DATED: 21 JANUARY 2025

## Remark:

1. The sample is tested "3Y+" as per client requested.
2. The Labeled Age Grade is 3Y+.

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 'Ridh', is placed over a small rectangular area.

**MOHAMED RIDZUAN**

TESTING ENGINEER

## APPROVED BY:

A handwritten signature in black ink, appearing to read 'Wong', is placed over a small rectangular area.

**WONG KOK LEONG**

ASSISTANT MANAGER

GICG - ENABLING TRUST IN A CHANGING WORLD

## SAMPLE PHOTO



異なる場合があります。

121924





# Report No. 010224120101

DATED: 21 JANUARY 2025

## 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: 6203 SET OF TRAFFIC SIGNS & LIGHTS

### Components

#### ASTM F963-23 Soluble Heavy Metals

		<u>Report Number</u>	<u>Date of Issue</u>
1	WHITE COATING ON WOOD	010224040095	7-May-24
2	BLACK COATING ON WOOD	010224080055	11-Sep-24
3	RED COATING ON WOOD	010223120128	22-Jan-24
4	DARK BLUE COATING ON WOOD	010224010337R1	4-Mar-24
5	YELLOW COATING ON WOOD	010224110066	28-Nov-24
6	DARK GREEN COATING ON WOOD	010224050066	5-Jun-24

#### Lead in Surface Coating

1	WHITE COATING ON WOOD	010224040095	7-May-24
2	BLACK COATING ON WOOD	010224080055	11-Sep-24
3	RED COATING ON WOOD	010223120128	22-Jan-24
4	DARK BLUE COATING ON WOOD	010224010337R1	4-Mar-24
5	YELLOW COATING ON WOOD	010224110066	28-Nov-24
6	DARK GREEN COATING ON WOOD	010224050066	5-Jun-24

#### Phthalate Content

1	WHITE COATING ON WOOD	010224040095	7-May-24
2	BLACK COATING ON WOOD	010224080055	11-Sep-24
3	RED COATING ON WOOD	010223120128	22-Jan-24
4	DARK BLUE COATING ON WOOD	010224010337R1	4-Mar-24
5	YELLOW COATING ON WOOD	010224110066	28-Nov-24
6	DARK GREEN COATING ON WOOD	010224050066	5-Jun-24



# Report No. 010224120101

DATED: 21 JANUARY 2025

## TEST RESULT(S):

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

**Test Method** : Reference to ASTM F963-23.

Test Item(s)	Item / Component Description(s)
1	6203 SET OF TRAFFIC SIGNS & LIGHTS

Clause	Requirement	Result
4.1	Material quality	M
4.2	Flammability	See Results Annex A5
4.3	Toxicology	M 4.3.5.1 (1) & (2); 4.3.8
4.4	Electrical/Thermal Energy	NA
4.5	Sound-Producing Toys	NA
4.6	Small Objects	NA
4.7	Accessible Edges	M 4.7.1
4.8	Projections	NA
4.9	Accessible Points	M 4.9.1, 4.9.3
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



# Report No. 010224120101

DATED: 21 JANUARY 2025

## TEST RESULT(S): (Continued)

Clause	Requirement	Result
5	Labeling Requirements	M 5.1, 5.2
6	Instructional Literature	M 6.1
7	Producer's Markings	M 7.1

Note:

M = Meet

NM = Not Meet

NA = Not Applicable

R = Refer to Comment Section

NR = Not Requested

NT = Not Tested

NP = Not Present

## Flammability For Solid/ Soft Toy

**Test Method** : Reference to ASTM F963-23 Annex A5

Test Item(s)	Item / Component Description(s)
1	6203 SET OF TRAFFIC SIGNS & LIGHTS

Test Item(s)	Length of Major Axis (in)	Burn Length (in)	Burn Time (s)	Regulatory Limit (in/s)	Burn Rate (in/s)	Result
1	2.75	0	5	0.1	DNI	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 (f)/ 16 CFR Part 1303 / ASTM F963-23 Standard Consumer Safety Specification on Toy Safety Section 4.3.5.1(1) - Total Lead In Surface Coating

**Test Method** : Reference to ASTM F963-23 Section 8.3.1 - CPSC-CH-E1003-09.1

Test Item(s)	Item / Component Description(s)
1	WHITE COATING ON WOOD
2	BLACK COATING ON WOOD
3	RED COATING ON WOOD
4	DARK BLUE COATING ON WOOD
5	YELLOW COATING ON WOOD
6	DARK GREEN COATING ON WOOD

Test Item(s)	Unit	Permissible Limit	Result					
			1	2	3	4	5	6
Lead (Pb)	mg/kg	90	ND	ND	ND	ND	ND	ND
<b>Conclusion</b>	-	-	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

Note:

- mg/kg = milligrams per kilogram

- ND = Not Detected

- Reporting limit (Each): 2 mg/kg





# Report No. 010224120101

DATED: 21 JANUARY 2025

## TEST RESULT(S): (Continued)

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

**Test Method** : Reference to ASTM F963-23 Section 8.3.1 - CPSC-CH-E1002-08.3, CPSC-CH-E1003-09.1

Test Item(s)	Item / Component Description(s)
1	WHITE COATING ON WOOD
2	BLACK COATING ON WOOD
3	RED COATING ON WOOD
4	DARK BLUE COATING ON WOOD
5	YELLOW COATING ON WOOD
6	DARK GREEN COATING ON WOOD

Test Item(s)	Unit	Permissible Limit	Result					
			1	2	3	4	5	6
Lead (Pb) in coating	mg/kg	90*	ND	ND	6.0	ND	ND	ND
<b>Conclusion</b>	-	-	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

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

### ASTM F963-23 Standard Consumer Safety Specification on Toy Safety Section 4.3.5.1(2) - Soluble Heavy Metals Content in Surface Coating

**Test Method** : Reference to ASTM F963-23, Sections 8.3.2 to 8.3.4.

Test Item(s)	Item / Component Description(s)
1	WHITE COATING ON WOOD
2	BLACK COATING ON WOOD
3	RED COATING ON WOOD
4	DARK BLUE COATING ON WOOD
5	YELLOW COATING ON WOOD
6	DARK GREEN COATING ON WOOD

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

-	Unit	Result					
Test Item(s)	-	1	2	3	4	5	6
Parameter	-	-	-	-	-	-	-
Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	ND	ND	ND	3.8	ND	5.1
Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	ND
Chromium (Cr)	mg/kg	ND	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	ND	ND	ND	ND	ND	ND
Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	ND
<b>Conclusion</b>	-	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

Note / Key:

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





# Report No. 010224120101

DATED: 21 JANUARY 2025

## TEST RESULT(S): (Continued)

**Consumer Product Safety Improvement Act Of 2008 Section 108/ 16 CFR Part 1307 / ASTM F963-23  
Standard Consumer Safety Specification on Toy Safety Section 4.3.8 - Phthalates**

**Test Method** : Reference to ASTM F963-23 Section 4.3.8.1- CPSC-CH-C1001-09.4

Test Item(s)	Item / Component Description(s)
1	WHITE COATING ON WOOD
2	BLACK COATING ON WOOD
3	RED COATING ON WOOD
4	DARK BLUE COATING ON WOOD
5	YELLOW COATING ON WOOD
6	DARK GREEN COATING ON WOOD

-	Abbrev.	Unit	Permissible Limit	Result					
Test Item(s)	-	-	-	1	2	3	4	5	6
Di-iso-butyl phthalate	DIBP	%	0.1	ND	ND	ND	ND	ND	ND
Di-butyl phthalate	DBP	%	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
Di-(2-ethylhexyl) phthalate	DEHP	%	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-n-octyl phthalate	DNOP	%	0.1	ND	ND	ND	ND	ND	ND
Di-iso-decyl phthalate	DIDP	%	0.1	ND	ND	ND	ND	ND	ND
<b>Conclusion</b>		-	-	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

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



# Report No. 010224120101

DATED: 21 JANUARY 2025

## TEST RESULT(S): (Continued)

### California Proposition 65 – Phthalate Content

Test Method : Reference to ASTM F963-23 Section 4.3.8.1- CPSC-CH-C1001-09.4

Test Item(s)	Item / Component Description(s)
1	WHITE COATING ON WOOD
2	BLACK COATING ON WOOD
3	RED COATING ON WOOD
4	DARK BLUE COATING ON WOOD
5	YELLOW COATING ON WOOD
6	DARK GREEN COATING ON WOOD

-	Abbrev.	Unit	Permissible Limit	Result					
Test Item(s)	-	-	-	1	2	3	4	5	6
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-nonyl phthalate	DINP	%	0.1	ND	ND	ND	ND	ND	ND
Di-iso-decyl phthalate	DIDP	%	0.1	ND	ND	ND	ND	ND	ND
Di-n-hexyl phthalate	DHEXP / 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.	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.