



TEST REPORT

Report No. 010222110033

DATED: 19 DECEMBER 2022

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

Buyer : /

Sample Description : ARCTIC ANIMAL MATCHING

Item No. : 5484

SKU No. : /

Model / Style : /

Age Grade : 18M+

Manufacturer : /

Country of Origin : THAILAND

Country of Destination : /

Test Sample Received : RECEIVED ON 12/12/2022

Test Period : FROM 12/12/2022 TO 19/12/2022

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	-
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	-
CALIFORNIA PROPOSITION 65 – PHTHALATE CONTENT	PASS	-

GIC Testing & Inspection Services Pte Ltd

158 Kallang Way #08-01
Singapore 349245



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For technical enquiries or any other concerns,
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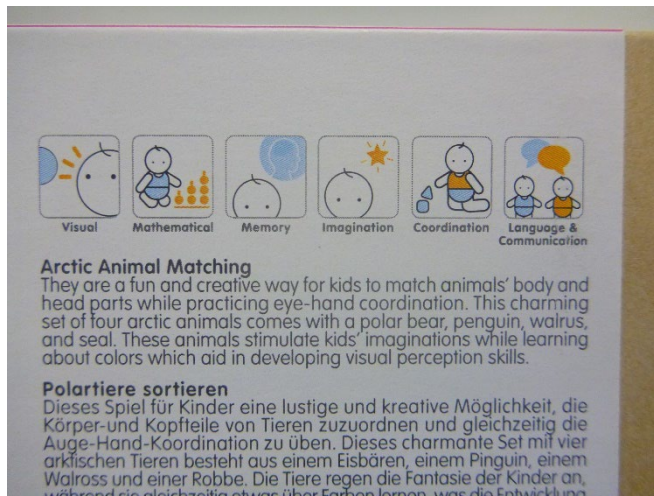
GIC Testing & Inspection Services Pte Ltd

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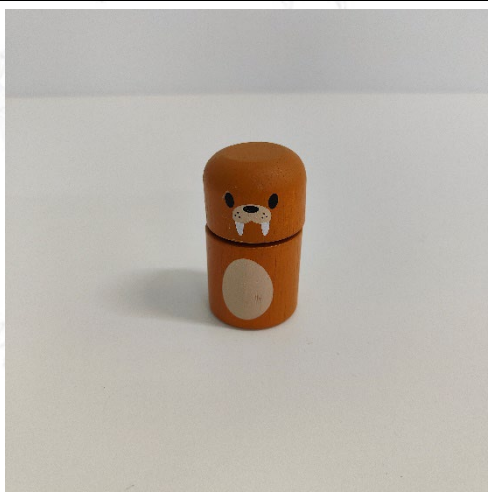
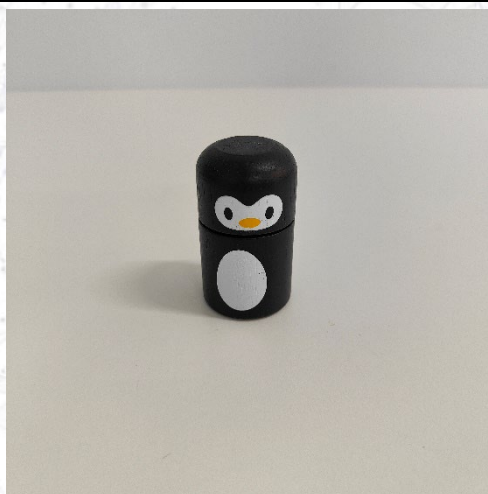
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REMARK:

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: 5484 ARCTIC ANIMAL MATCHING

<u>Components</u>	<u>Report Number</u>	<u>Date of Issue</u>
<u>ASTM F963-17 Soluble Heavy Metals</u>		
WHITE COATING ON WOOD	010222030086	06 Apr 2022
BLACK COATING ON WOOD	010222030086	06 Apr 2022
GRAY COATING ON WOOD	010221120064	23 Dec 2021
BROWN COATING ON WOOD	010222070004	13 Jul 2022
YELLOW COATING ON WOOD	010222030027	15 Mar 2022
LIGHT BLUE COATING ON WOOD	010221120061	23 Dec 2021
LIGHT BROWN COATING ON WOOD	010222070005	13 Jul 2022
YELLOW PLASTIC (VELCRO)	010222050112	06 Jun 2022
<u>Lead in Surface Coating</u>		
WHITE COATING ON WOOD	010222030086	06 Apr 2022
BLACK COATING ON WOOD	010222030086	06 Apr 2022
GRAY COATING ON WOOD	010221120064	23 Dec 2021
BROWN COATING ON WOOD	010222070004	13 Jul 2022
YELLOW COATING ON WOOD	010222030027	15 Mar 2022
LIGHT BLUE COATING ON WOOD	010221120061	23 Dec 2021
LIGHT BROWN COATING ON WOOD	010222070005	13 Jul 2022
<u>Lead in Substrate</u>		
YELLOW PLASTIC (VELCRO)	010222050112	06 Jun 2022
<u>Phthalate Content</u>		
WHITE COATING ON WOOD	010222030086	06 Apr 2022
BLACK COATING ON WOOD	010222030086	06 Apr 2022
GRAY COATING ON WOOD	010221120064	23 Dec 2021
BROWN COATING ON WOOD	010222070004	13 Jul 2022
YELLOW COATING ON WOOD	010222030027	15 Mar 2022
LIGHT BLUE COATING ON WOOD	010221120061	23 Dec 2021
LIGHT BROWN COATING ON WOOD	010222070005	13 Jul 2022
YELLOW PLASTIC (VELCRO)	010222050112	06 Jun 2022



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TEST RESULT(S):

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

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	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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DATED: 19 DECEMBER 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	5484 ARCTIC ANIMAL MATCHING

Test Item(s)	Length of Major Axis (in)	Burn Length (in)	Burn Time (s)	Permissible Limit (in/s)	Burn Rate (in/s)	Result
1	2.40	DNI	DNI	0.1	DNI	DNI
Conclusion	-	-	-	-	-	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	YELLOW PLASTIC (VELCRO)

-	Unit	Permissible Limit	Result
Test Item(s)	-	-	1
Lead	mg/kg	100	ND
Conclusion	-	-	PASS

Note:

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

- ND = Not Detected

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	WHITE COATING ON WOOD
2	BLACK COATING ON WOOD
3	GRAY COATING ON WOOD
4	BROWN COATING ON WOOD
5	YELLOW COATING ON WOOD
6	LIGHT BLUE COATING ON WOOD
7	LIGHT BROWN COATING ON WOOD

-	Unit	Permissible Limit	Result						
Test Item(s)	-	-	1	2	3	4	5	6	7
Lead	mg/kg	90	ND	ND	2.1	ND	ND	ND	5.2
Conclusion	-	-	PASS	PASS	PASS	PASS	PASS	PASS	PASS

Note:

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

- ND = Not Detected



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DATED: 19 DECEMBER 2022

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	WHITE COATING ON WOOD
2	BLACK COATING ON WOOD
3	GRAY COATING ON WOOD
4	BROWN COATING ON WOOD
5	YELLOW COATING ON WOOD
6	LIGHT BLUE COATING ON WOOD
7	LIGHT BROWN COATING ON WOOD
8	YELLOW PLASTIC (VELCRO)

-	Unit	Permissible Limit	Result			
Test Item(s)	-	-	1	2	3	4
Total Lead (Pb)	mg/kg	40	ND	ND	2.1	ND
Conclusion	-	-	PASS	PASS	PASS	PASS

-	Unit	Permissible Limit	Result			
Test Item(s)	-	-	5	6	7	8
Total Lead (Pb)	mg/kg	40	ND	ND	5.2	ND
Conclusion	-	-	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	WHITE COATING ON WOOD
2	BLACK COATING ON WOOD
3	GRAY COATING ON WOOD
4	BROWN COATING ON WOOD
5	YELLOW COATING ON WOOD
6	LIGHT BLUE COATING ON WOOD
7	LIGHT BROWN COATING ON WOOD
8	YELLOW PLASTIC (VELCRO)

-	Unit	Permissible Limit	Result			
Test Item(s)	-	-	1	2	3	4
Antimony (Sb)	mg/kg	60	ND	ND	ND	ND
Arsenic (As)	mg/kg	25	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	ND	ND	ND	9.2
Cadmium (Cd)	mg/kg	75	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	60	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	ND	2.4	ND	ND
Mercury (Hg)	mg/kg	60	ND	ND	ND	ND
Selenium (Se)	mg/kg	500	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS



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TEST RESULT(S): (Continued)

-	Unit	Permissible Limit	Result			
Test Item(s)	-	-	5	6	7	8
Antimony (Sb)	mg/kg	60	ND	ND	ND	ND
Arsenic (As)	mg/kg	25	ND	ND	ND	ND
Barium (Ba)	mg/kg	1000	2.03	ND	21.75	ND
Cadmium (Cd)	mg/kg	75	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	60	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	ND	ND	ND	ND
Mercury (Hg)	mg/kg	60	ND	ND	ND	ND
Selenium (Se)	mg/kg	500	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS

Note:

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

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

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

Test Item(s)	Item / Component Description(s)
1	WHITE COATING ON WOOD
2	BLACK COATING ON WOOD
3	GRAY COATING ON WOOD
4	BROWN COATING ON WOOD
5	YELLOW COATING ON WOOD
6	LIGHT BLUE COATING ON WOOD
7	LIGHT BROWN COATING ON WOOD
8	YELLOW PLASTIC (VELCRO)

-	Abbrev.	Unit	Permissible Limit	Result			
Test Item(s)	-	-	-	1	2	3	4
Di-(2-ethylhexyl) phthalate	DEHP	%	0.1	ND	ND	ND	ND
Di-butyl phthalate	DBP	%	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-iso-butyl phthalate	DIBP	%	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
Conclusion	-	-	-	PASS	PASS	PASS	PASS

-	Abbrev.	Unit	Permissible Limit	Result			
Test Item(s)	-	-	-	5	6	7	8
Di-(2-ethylhexyl) phthalate	DEHP	%	0.1	ND	ND	ND	ND
Di-butyl phthalate	DBP	%	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-iso-butyl phthalate	DIBP	%	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
Conclusion	-	-	-	PASS	PASS	PASS	PASS



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DATED: 19 DECEMBER 2022

TEST RESULT(S): (Continued)

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	WHITE COATING ON WOOD
2	BLACK COATING ON WOOD
3	GRAY COATING ON WOOD
4	BROWN COATING ON WOOD
5	YELLOW COATING ON WOOD
6	LIGHT BLUE COATING ON WOOD
7	LIGHT BROWN COATING ON WOOD
8	YELLOW PLASTIC (VELCRO)

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

-	Abbrev.	Unit	Permissible Limit	Result			
Test Item(s)	-	-	-	5	6	7	8
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-decyl phthalate	DIDP	%	0.1	ND	ND	ND	ND
Di-iso-nonyl phthalate	DINP	%	0.1	ND	ND	ND	ND
Di-n-hexyl phthalate	DNHP	%	0.1	ND	ND	ND	ND
Conclusion	-	-	-	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



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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.

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