



# TEST REPORT

Report No.: STSGZ2105273062E

Date: 10-Dec-2021

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**Applicant :** CARPENTERS MANUFACTORY LIMITED

**Address:** HUANG JIN JI INDUSTRIAL ZONE, SHANG JIE VILLAGE, QI SHI TOWN, DONG GUAN CITY, GUANG DONG PROVINCE, P.R.CHINA

The following sample(s) and sample information was/were submitted and identified by client as:

**Sample Name:** Grocery Cabinet

**Model/Style/Item #:** ME16317

**Labeled Age Grading:** 3+

**Requested Age Grading:** 3+

**Tested Age Grading:** 3+

**Receiving Date:** 27-May-2021, 9-Dec-2021

**Test Period:** From 27-May-2021 to 10-Dec-2021

**Add Information:** -

\*\*\*\*\*Please refer to the following page for detailed results\*\*\*\*\*

Signed for and on behalf of STS

Tim Qi  
(Technical Director)



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## Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Safety of Toys: Mechanical and Physical Properties	EN 71-1:2014+A1:2018	PASS
2	General labeling requirement(CE marking, manufacturer/importer name and address, and product identification)	2009/48/EC	PASS
3	Safety of Toys: Flammability	EN 71-2:2011+A1:2014	PASS
4	Safety of Toys: Migration of Certain Elements	EN 71-3:2019	PASS
5	Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP) -Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006.	EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS	PASS
6	Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
7	Mechanical and Physical Propertie	ASTM F963-17 (Except Clause 4.15)	PASS
8	Flammability of Solids	16 CFR 1500.44 / ASTM F963-17, A5	PASS
9	Soluble Migrated Elements ASTM F963-17	ASTM F963-17, determined by ICP-OES	PASS
10	Lead Content (Pb) ASTM F963-17	CPSC-CH-E1001-08.3 (Metal Substrate), CPSC-CH-E1002-08.3 (Non-metal Substrate), CPSC-CH-E1003-09.1 (Surface Coating), determined by AAS	PASS
11	Lead Content (Pb) CPSIA H.R. 4040 Sec. 101	CPSC-CH-E1001-08.3 (Metal Substrate), CPSC-CH-E1002-08.3 (Non-metal Substrate), CPSC-CH-E1003-09.1 (Surface Coating), determined by AAS	PASS
12	Lead Content (Pb) - 16 CFR 1303	CPSC-CH-E1003-09.1(Surface Coating) ,determined by AAS	PASS
13	Phthalates (DIBP, DBP, DPENP, DHEXP, BBP, DEHP, DCHP, DINP)-Consumer Product Safety Improvement Act of 2008(H.R. 4040) & H.R.2715 amendment &16 CFR Part 1307	CPSC-CH-C1001-09.4, Solvent extract and determined by GC/MS	PASS
14	Mechanical and Physical Properties	SOR/2011-17	PASS
15	Flammability	SOR/2011-17	PASS
16	Lead Content (Pb) and Mercury Content (Hg) SOR/2011-17	SOR/2011-17, determined by ICP-OES	PASS
17	Soluble Migrated Elements SOR/2011-17	SOR/2011-17, determined by ICP-OES	PASS
18	Mechanical and Physical Propertie - Australian/New Zealand Standard on Safety of Toys	AS/NZS 8124.1:2016 (Except Clause 4.15)	PASS
19	Flammability Properties - Australian/New Zealand Standard on Safety of Toys	AS/NZS 8124.2:2016	PASS
20	Soluble elements Content- Australian/New Zealand Standard on Safety of Toys	AS/NZS 8124.3:2012+A1:2016,determined by ICP	PASS
21	Phthalates content- As Client' s Requirement	CPSC-CH-C1001-09.4, determined by GC-MS	SEE RESULT

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## Result:

### 1. Safety of Toys: Mechanical and Physical Properties – EN 71-1:2014+A1:2018

**PASS**

Clause	Parameter	Results
4	General requirements	
4.1	Material cleanliness	Pass
4.2	Assembly	Pass
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
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	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	Pass
4.17	Projectile toys	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA

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4.20	Acoustics	NA
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
4.26	Toy disguise costumes	NA
4.27	Flying toys	NA
5	Toys intended for children under 36 months	
5.1	General requirement	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid-filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15	Sledges with cords for pulling	NA
6	Packaging	NA

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7	Warnings, markings and instructions for use	
7.1	General	Pass
7.2	Toys not intended for children under 36 months	Pass
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectile toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA
7.11	Toys otherwise intended to be strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethingers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic / electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA

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7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	NA

Remark(s): NA = Not Applicable

## 2. General labeling requirement - 2009/48/EC

**PASS**

Item(s)	Results
CE Mark	Pass
Manufacturer/importer name and address	Pass
Product identification	Pass

## 3. Safety of Toys: Flammability – EN 71-2:2011+A1:2014

**PASS**

Clause	Parameter	Results
4.1	General requirements	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

Remark(s): NA = Not Applicable

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## 4. Safety of Toys: Migration of Certain Elements

EN 71-3:2019

General elements determined by ICP-MS

Chromium(VI) determined by IC-ICP-MS

Organic tin determined by GC-MS

Compound		Material				Limit (mg/kg)	RL (mg/kg)
		Category III <sup>*1</sup>					
		1	2	3	4		
1	Aluminum (Al)	N.D.	24	N.D.	15	28130	10
2	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	560	2
3	Arsenic(As)	N.D.	N.D.	N.D.	N.D.	47	0.2
4	Barium(Ba)	N.D.	N.D.	N.D.	N.D.	18750	10
5	Boron (B)	N.D.	N.D.	N.D.	N.D.	15000	10
6	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	17	0.01
7	Chromium (III) (Cr)	N.D.	N.D.	N.D.	N.D.	460	1.0
8	Chromium (VI) (Cr)	N.D.	N.D.	N.D.	N.D.	0.053	0.005
9	Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	130	0.2
10	Copper (Cu)	N.D.	N.D.	N.D.	N.D.	7700	10
11	Lead(Pb)	N.D.	N.D.	N.D.	N.D.	23	0.1
12	Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	15000	10
13	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	94	0.2
14	Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	930	1.0
15	Selenium(Se)	N.D.	N.D.	N.D.	N.D.	460	1.0
16	Strontium (Sr)	13	N.D.	N.D.	N.D.	56000	10
17	Tin (Sn)	N.D.	N.D.	N.D.	N.D.	180000	4.9
18	Organic tin (Sn)	N.D.* <sup>2</sup>	N.D.* <sup>2</sup>	N.D.* <sup>2</sup>	N.D.* <sup>2</sup>	12 <sup>*2</sup>	0.05 <sup>*2</sup>
19	Zinc (Zn)	39	1455	N.D.	N.D.	46000	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

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Compound		Material		Limit (mg/kg)	RL (mg/kg)
		Category III <sup>*1</sup>			
		5	6		
1	Aluminum (Al)	189	161	28130	10
2	Antimony (Sb)	N.D.	N.D.	560	2
3	Arsenic(As)	N.D.	N.D.	47	0.2
4	Barium(Ba)	N.D.	65	18750	10
5	Boron (B)	N.D.	N.D.	15000	10
6	Cadmium (Cd)	N.D.	N.D.	17	0.01
7	Chromium (III) (Cr)	N.D.	N.D.	460	1.0
8	Chromium (VI) (Cr)	N.D.	N.D.	0.053	0.005
9	Cobalt (Co)	N.D.	N.D.	130	0.2
10	Copper (Cu)	N.D.	N.D.	7700	10
11	Lead(Pb)	N.D.	N.D.	23	0.1
12	Manganese (Mn)	N.D.	10	15000	10
13	Mercury (Hg)	N.D.	N.D.	94	0.2
14	Nickel (Ni)	N.D.	N.D.	930	1.0
15	Selenium(Se)	N.D.	N.D.	460	1.0
16	Strontium (Sr)	N.D.	3598	56000	10
17	Tin (Sn)	N.D.	N.D.	180000	4.9
18	Organic tin (Sn)	N.D.* <sup>2</sup>	N.D.* <sup>2</sup>	12* <sup>2</sup>	0.05 * <sup>2</sup>
19	Zinc (Zn)	N.D.	17	46000	10
	Conclusion	PASS	PASS	-	-

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Remark(s): (a) mg/kg: milligram per kilogram = part per million = ppm

(b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

\*1: Categories of various materials:

Category I: Dry, brittle, powder like or pliable material

Category II: Liquid or sticky material

Category III: Scraped-off material

\*2: Expressed as soluble Tributyltin.

**5. Phthalate content (DIBP, DEHP, DBP, BBP, DINP, DIDP, DNOP) - Item 51& 52 of Annex XVII of REACH Regulation (EC) 1907/2006**  
**EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS**

Compound			Material				Limit (%)	RL (%)
			1	2	3	4		
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	-	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	-	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	N.D.	N.D.	-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	N.D.	-	0.005
8	Sum of 1, 2, 3 & 4		N.D.	N.D.	N.D.	N.D.	0.1	-
9	Sum of 5, 6 & 7		N.D.	N.D.	N.D.	N.D.	0.1	-
	Conclusion		PASS	PASS	PASS	PASS	-	-

Compound			Material		Limit (%)	RL (%)
			5	6		
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	-	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	-	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	-	0.005

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7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	-	0.005
8	Sum of 1, 2, 3 & 4		N.D.	N.D.	0.1	-
9	Sum of 5, 6 & 7		N.D.	N.D.	0.1	-
	Conclusion		PASS	PASS	-	-

Remark(s): (a) RL: Report limit  
(b) N.D.: Not detected (result is less than RL)

## 6. Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Compound		Material				Limit (mg/kg)	RL (mg/kg)
		1	2	3	4		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	N.D.	100	10
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		5	6		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	100	10
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

## 7. Mechanical and Physical Properties – ASTM F963-17

**PASS**

Clause	Parameter	Results
4	Safety Requirements	
4.1	Material Quality	Pass
4.4	Electrical / Thermal Energy	NA
4.5	Sound-Producing Toys	NA

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4.6	Small Objects	Pass
4.7	Accessible Edges	Pass
4.8	Projections	NA
4.9	Accessible Points	Pass
4.10	Wires or Rods	NA
4.11	Nails and Fasteners	Pass
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	NR*
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
4.26	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

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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 Entrapments in Handles and Steering Wheels	NA
4.40	Expanding Materials	NA
4.41	Toy Chests	NA
5	Labeling Requirements	
5.1	Federal Government Requirements	NA
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	Pass
5.4	Aquatic Toys	NA
5.5	Crib and Playpen Toys	NA
5.6	Mobiles	NA
5.7	Stroller and Carriage Toys	NA
5.8	Toys Intended to be Assembled by an Adult	Pass
5.9	Simulated Protective Devices	NA
5.10	Toys with Functional Sharp Edges or Points	NA
5.11	Small Objects, Small Balls, Marbles, and Balloons	Pass
5.12	Toy Caps	NA
5.13	Art Materials	NA
5.14	Electric Toys	NA

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5.16	Promotional Materials	NA
5.17	Magnets	NA
6	Instructional Literature	
6.1	Definition and Description	NA
6.2	Crib and Playpen Toys	NA
6.3	Mobiles	NA
6.4	Toys Intended to be Assembled by an Adult	Pass
6.7	Toys in Contact with Food	NA
6.8	Toy Chests	NA
7	Producer's Markings	Pass
8	Test Methods	
8.5	Normal Use Testing	Pass
8.6	Abuse Testing	Pass
8.7	Impact Tests	Pass
8.8	Torque Tests for Removal of Components	Pass
8.9	Tension Tests for Removal of Components	Pass
8.10	Compression Tests	Pass

Remark(s): NA = Not Applicable

\* = According to the customer's requirements, this clause is not tested

## 8. Flammability of Solids – 16 CFR 1500.44 / ASTM F963-17, A5

**PASS**

Clause	Parameter	Results
16 CFR 1500.44 / ASTM F963-17, A5	Flammability	Pass

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## 9. Soluble Migrated Elements ASTM F963-17, determined by ICP-OES

Compound		Material				Limit (mg/kg)	RL (mg/kg)
		1	2	3	4		
1	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	60	5
2	Arsenic (As)	N.D.	N.D.	N.D.	N.D.	25	2
3	Barium (Ba)	N.D.	N.D.	N.D.	N.D.	1000	5
4	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	75	5
5	Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	60	5
6	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	5
7	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	60	5
8	Selenium (Se)	N.D.	N.D.	N.D.	N.D.	500	5
Conclusion		PASS	PASS	PASS	PASS	-	-

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		5	6		
1	Antimony (Sb)	N.D.	N.D.	60	5
2	Arsenic (As)	N.D.	N.D.	25	2
3	Barium (Ba)	N.D.	45	1000	5
4	Cadmium (Cd)	N.D.	N.D.	75	5
5	Chromium (Cr)	N.D.	N.D.	60	5
6	Lead (Pb)	N.D.	N.D.	90	5
7	Mercury (Hg)	N.D.	N.D.	60	5
8	Selenium (Se)	N.D.	N.D.	500	5
Conclusion		PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

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## 10. Lead Content (Pb) – ASTM F963-17

CPSC-CH-E1001-08.3 (Metal Substrate), CPSC-CH-E1002-08.3 (Non-metal Substrate), CPSC-CH-E1003-09.1 (Surface Coating), determined by AAS

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		1	7		
1	Lead (Pb)	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	-	-

Compound		Material				Limit (mg/kg)	RL (mg/kg)
		2	3	4	5		
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		6		
1	Lead (Pb)	N.D.	100	10
	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

## 11. Lead Content (Pb) – CPSIA H.R. 4040 Sec. 101

CPSC-CH-E1001-08.3 (Metal Substrate), CPSC-CH-E1002-08.3 (Non-metal Substrate), CPSC-CH-E1003-09.1 (Surface Coating), determined by AAS

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		1	7		
1	Lead (Pb)	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	-	-

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Compound		Material				Limit (mg/kg)	RL (mg/kg)
		2	3	4	5		
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	10
	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		6		
1	Lead (Pb)	N.D.	90	10
	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

## 12. Lead Content (Pb) - 16 CFR 1303 CPSC-CH-E1003-09.1(Surface Coating) ,determined by AAS

Compound		Material				Limit (mg/kg)	RL (mg/kg)
		2	3	4	5		
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	10
	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		6		
1	Lead (Pb)	N.D.	90	10
	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

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**13. Phthalates (DIBP, DBP, DPENP, DHEXP, BBP, DEHP, DCHP, DINP)-Consumer Product Safety Improvement Act of 2008(H.R. 4040) & H.R.2715 amendment &16 CFR Part 1307.**  
CPSC-CH-C1001-09.4, Solvent extract and determined by GC/MS

Compound			Material				Limit (%)	RL (%)
			1	2	3	4		
1	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DPENP	Di-n-pentyl Phthalate CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DHEXP	Di-n-hexyl Phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005
5	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
6	DEHP	Bis (2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
7	DCHP	Dicyclohexyl Phthalate CAS# 84-61-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
8	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0,68515-48-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
Conclusion			PASS	PASS	PASS	PASS	-	-

Compound			Material		Limit (%)	RL (%)
			5	6		
1	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	0.1	0.005
2	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	N.D.	0.1	0.005
3	DPENP	Di-n-pentyl Phthalate CAS# 131-18-0	N.D.	N.D.	0.1	0.005
4	DHEXP	Di-n-hexyl Phthalate CAS# 84-75-3	N.D.	N.D.	0.1	0.005
5	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	N.D.	0.1	0.005
6	DEHP	Bis (2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	N.D.	0.1	0.005
7	DCHP	Dicyclohexyl Phthalate CAS# 84-61-7	N.D.	N.D.	0.1	0.005
8	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0,68515-48-0	N.D.	N.D.	0.1	0.005
Conclusion			PASS	PASS	-	-

Remark(s): (a) RL: Report limit  
(b) N.D.: Not detected (result is less than RL)

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## 14. Mechanical and Physical Properties – SOR/2011-17

**PASS**

Clause	Parameter	Results
3	Official languages	NA
4	Flexible film bags	NA
7	Small parts	Pass
8	Metal edges	Pass
9	Wire frames	NA
10	Plastic edges	NA
11	Wood	Pass
12	Glass	NA
13	Fasteners	Pass
14	Safety stops or locking devices	NA
15	Spring-wound driving mechanisms	NA
16	Projectile components	NA
17	Enclosures	NA
18	Stability	NA
19	Decibel limit	NA
28	Dolls, plush toys and soft toys – Fastenings	NA
29	Dolls, plush toys and soft toys – Stuffing	NA
30	Dolls, plush toys and soft toys – Small parts	NA
31	Dolls, plush toys and soft toys – Eyes and noses	NA
35	Plant seeds – Noise	NA
36	Plant seeds – stuffing material	NA
37	Pull and push toys	NA
38	Toys steam engines	NA

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39	Finger paints	NA
40	Rattles	NA
41	Elastics	NA
42	Yo-yo type balls	NA
43	Magnetic toys	NA

Remark(s): NA = Not Applicable

## 15. Flammability – SOR/2011-17

**PASS**

Clause	Parameter	Results
21	Celluloid or cellulose nitrate	Pass
32	Dolls, plush toys and soft toys – Flammability of outer covering	NA
33	Dolls, plush toys and soft toys – Flammability of yarn	NA
34	Dolls, plush toys and soft toys – Flammability of hair or mane	NA

## 16. Lead Content (Pb) and Mercury Content (Hg) SOR/2011-17, determined by ICP-OES

Compound		Material				Limit (mg/kg)	RL (mg/kg)
		2	3	4	5		
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	10
2	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	Not Detected	5
	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		6		
1	Lead (Pb)	N.D.	90	10
2	Mercury (Hg)	N.D.	Not Detected	5
	Conclusion	PASS	-	-

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Remark(s): (a) mg/kg: milligram per kilogram = part per million = ppm  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

## 17. Soluble Migrated Elements SOR/2011-17, determined by ICP-OES

Compound		Material				Limit (mg/kg)	RL (mg/kg)
		2	3	4	5		
1	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	1000	5
2	Arsenic (As)	N.D.	N.D.	N.D.	N.D.	1000	2
3	Barium (Ba)	N.D.	N.D.	N.D.	N.D.	1000	5
4	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	1000	5
5	Selenium (Se)	N.D.	N.D.	N.D.	N.D.	1000	5
Conclusion		PASS	PASS	PASS	PASS	-	-

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		6		
1	Antimony (Sb)	N.D.	1000	5
2	Arsenic (As)	N.D.	1000	2
3	Barium (Ba)	N.D.	1000	5
4	Cadmium (Cd)	N.D.	1000	5
5	Selenium (Se)	N.D.	1000	5
	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram = part per million = ppm  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

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## 18. Mechanical and Physical Properties - Australian/New Zealand Standard on Safety of Toys AS/NZS 8124.1:2016

Section	Testing Items	Assessment
4	Requirements	
4.1	Normal use	Pass
4.2	Reasonably foreseeable abuse	Pass
4.3	Material	Pass
4.4	Small parts	Pass
4.5	Shape, size, and strength of certain toys	NA
4.6	Edges	Pass
4.7	Points	Pass
4.8	Projections	NA
4.9	Metal wires and rods	NA
4.10	Plastic film or plastic bags in packaging and in toys	NA
4.11	Cords and elastics	NA
4.12	Folding mechanisms	NA
4.13	Holes, clearances and accessibility of mechanisms	NA
4.14	Springs	NA
4.15	Stability and overload requirements	NR*
4.16	Enclosures	NA
4.17	Simulated protective equipment, such as helmets, hats and goggles.	NA
4.18	Projectile toys	NA
4.19	Rotors and propellers	NA
4.20	Aquatic toys	NA
4.21	Braking	NA
4.22	Toy bicycles	NA
4.23	Speed limitation of electrically driven ride-on toys	NA

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Section	Testing Items	Assessment
4.24	Toys containing a heat source	NA
4.25	Liquid-filled toys	NA
4.26	Mouth-actuated toys	NA
4.27	Toy roller skates, toy inline skates and toy skateboards	NA
4.28	Percussion caps	NA
4.29	Acoustic requirements	NA
4.30	Toy scooters	NA
4.31	Magnets and magnetic components	NA
B	Safety-labeling guidelines and manufacturer's markings	Pass
B.2	Safety-labeling guidelines	Pass
B.3	Instructional literature	Pass
B.4	Manufacturer's markings	Pass
	The name, trademark or mark of the manufacturer or the distributor	Pass
	The address of the manufacturer or the distributor	Pass

Remark(s): NA = Not Applicable

\* = According to the customer's requirements, this clause is not tested

## 19. Flammability Properties - Australian/New Zealand Standard on Safety of Toys AS/NZS 8124.2:2016

Section	Testing Items	Assessment
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 a play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys (animals and dolls, etc.) with a piled or textile surface	NA

Remark(s): NA = Not Applicable

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## 20. Soluble elements Content- Australian/New Zealand Standard on Safety of Toys AS/NZS 8124.3:2012+A1:2016,determined by ICP

Compound		Material				Limit (mg/kg)	RL (mg/kg)
		1	2	3	4		
1	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	60	5
2	Arsenic (As)	N.D.	N.D.	N.D.	N.D.	25	2
3	Barium (Ba)	N.D.	N.D.	N.D.	N.D.	1000	5
4	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	75	5
5	Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	60	5
6	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	5
7	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	60	5
8	Selenium (Se)	N.D.	N.D.	N.D.	N.D.	500	5
Conclusion		PASS	PASS	PASS	PASS	-	-

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		5	6		
1	Antimony (Sb)	N.D.	N.D.	60	5
2	Arsenic (As)	N.D.	N.D.	25	2
3	Barium (Ba)	N.D.	N.D.	1000	5
4	Cadmium (Cd)	N.D.	N.D.	75	5
5	Chromium (Cr)	N.D.	N.D.	60	5
6	Lead (Pb)	N.D.	N.D.	90	5
7	Mercury (Hg)	N.D.	N.D.	60	5
8	Selenium (Se)	N.D.	N.D.	500	5
Conclusion		PASS	PASS	-	-

Remark(s) (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

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## 21. Phthalates content- As Client' s Requirement

Refer To CPSC-CH-C1001-09.4, determined by GC-MS

Compound			Material				Client's Limit (%)	RL (%)
			1	2	3	4		
1	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	DEHP	Di(2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DINP	Di-isononyl phthalate CAS# 68515-48-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
6	DIDP	Di-isodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
7	DPP	Dipentyl phthalate CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
8	DIBP	Di-iso-butyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
9	Dnpp	Phthalic acid, bis-n-pentyl ester CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
10	DIHP	1,2-Benzenedicarboxylic acid, di-C6-8- branchedalkyl esters,C7- rich CAS# 71888-89-6	N.D.	N.D.	N.D.	N.D.	0.1	0.005
11	DHNUP	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters CAS# 68515-42-4	N.D.	N.D.	N.D.	N.D.	0.1	0.005
12	DMEP	Dimethoxyethyl phthalate CAS# 117-82-8	N.D.	N.D.	N.D.	N.D.	0.1	0.005
13	DIPP	Di-isopentyl phthalate CAS# 605-50-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
14	PIPP	N-pentyl- isopentylphthalate O-CAS# 776297-69-9	N.D.	N.D.	N.D.	N.D.	0.1	0.005
15	-	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear CAS# 84777-06-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
16	DHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005
17	DNHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005

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Compound			Material		Client's Limit (%)	RL (%)
			5	6		
1	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	N.D.	0.1	0.005
2	DEHP	Di(2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	N.D.	0.1	0.005
3	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	N.D.	0.1	0.005
4	DINP	Di-isononyl phthalate CAS# 68515-48-0	N.D.	N.D.	0.1	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	0.1	0.005
6	DIDP	Di-isodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	0.1	0.005
7	DPP	Dipentyl phthalate CAS# 131-18-0	N.D.	N.D.	0.1	0.005
8	DIBP	Di-iso-butyl phthalate CAS# 84-69-5	N.D.	N.D.	0.1	0.005
9	Dnpp	Phthalic acid, bis-n-pentyl ester CAS# 131-18-0	N.D.	N.D.	0.1	0.005
10	DIHP	1,2-Benzenedicarboxylic acid, di-C6-8-branchedalkyl esters, C7-rich CAS# 71888-89-6	N.D.	N.D.	0.1	0.005
11	DHNP	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters CAS# 68515-42-4	N.D.	N.D.	0.1	0.005
12	DMEP	Dimethoxyethyl phthalate CAS# 117-82-8	N.D.	N.D.	0.1	0.005
13	DIPP	Di-isopentyl phthalate CAS# 605-50-5	N.D.	N.D.	0.1	0.005
14	PIPP	P-pentyl-isopentylphthalate Q-CAS# 776297-69-9	N.D.	N.D.	0.1	0.005
15	-	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear CAS# 84777-06-0	N.D.	N.D.	0.1	0.005
16	DHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	0.1	0.005
17	DNHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	0.1	0.005

Remark(s): (a) RL: Report limit  
(b) N.D.: Not detected (result is less than R)

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## Material List:

Material #	Position / Sample Description
1	Brown plywood, holder
2	Transparent coating, holder
3	Red coating, holder
4	Dark green coating, holder
5	White coating, holder
6	Black coating, holder
7	Silvery metal, hex screw

## Photo(s):



Product Photo

<<< <<< END OF REPORT >>> >>>

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All samples and goods are accepted by the Guangzhou Depuhua Test Services Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").
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