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CARPENTERS MANUFACTORY LIMITED Applicant:

HUANG JIN JI INDUSTRIAL ZONE, SHANG JIE VILLAGE, QI SHI TOWN, DONG Address:

GUAN CITY, GUANG DONG PROVINCE, P.R.CHINA

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

SoftEdge Climber - Platform, SoftEdge Climber - Climbing Frame, SoftEdge Climber -Sample Name:

Ramp, SoftEdge Climber - Climbing Steps, SoftEdge Climber - Ramp with Climbing

Holds, SoftEdge Climber - Ramp with Anti-Slip Strips

Model/Style/Item #: ME20444, ME20451, ME20468, ME20482, ME24763, ME24770

Labeled Age Grading: 3Y+

**Requested Age Grading:** 3Y+

**Tested Age Grading:** 3Y+

**Receiving Date:** 8-Oct-2022,25-Oct-2022

**Test Period:** From 8-Oct-2022 to 26-Oct-2022

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	Safety of Toys: Flammability	EN 71-2:2020	PASS		
3	Safety of Toys: Migration of Certain Elements	EN 71-3:2019+A1:2021	PASS		
4	Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to Informative Annex A.26 and A.33 of the European standard on Safety of toys EN 71-1:2014+A1:2018 and the Directive 2009/48/EC-Safety of toys	EN 71-1:2014+A1:2018 and the Directive 2009/48/EC-Safety of toys	SEE RESULT		
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	PASS		
8	Flammability of Solids	16 CFR 1500.44 / ASTM F963-17, A5	PASS		
9	Soluble Migrated Elements ASTM F963-17				
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	Phthalates (DIBP, DBP, DPENP, DHEXP, BBP, DEHP, DCHP, DINP) - CPSIA H.R. 4040 Sec. 108	CPSC-CH-C1001-09.4, Solvent extract and determined by GC/MS	PASS		
13	Mechanical and Physical Properties (Except Clause 3)	SOR/2011-17	PASS		
14	Flammability	SOR/2011-17	PASS		
15	Lead Content (Pb) and Mercury Content (Hg) SOR/2011-17	Canada Product Safety Laboratory Book 5 - Laboratory Policies and Procedures Part B,Test Methods Section, Method C02.2:2017&Method C-07:2019	PASS		
16	Soluble Migrated Elements SOR/2011-17	Canada Product safety reference manual Book 5- Laboratory policies and procedures Part B: Test Methods Section, Method C-03: 2018	PASS		
17	Mechanical and Physical Propertie - Australian/New Zealand Standard on Safety of Toys	AS/NZS ISO 8124.1:2019	PASS		
18	Flammability Properties - Australian/New Zealand Standard on Safety of Toys	AS/NZS 8124.2:2016	PASS		



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19	Soluble elements Content- Australian/New Zealand Standard on Safety of Toys	AS/NZS ISO 8124.3:2021,determined by ICP	PASS
20	Phthalates content- As Client's Requirement	CPSC-CH-C1001-09.4, determined by GC-MS	SEE RESULT
21	Lead Content (Pb) - 16 CFR 1303	CPSC-CH-E1003-09.1(Surface Coating) ,determined by AAS	PASS
22	Azo colorants content - Item 43 of Annex XVII of the REACH Regulation (EC) No 1907/2006 & amendment (EC) No 552/2009 and (EU) No 126/2013	ISO 14362-1:2017 & ISO 14362-3:2017, determined by GC/MS and HPLC	PASS

### 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			



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4.15	Toys intended to bear the mass of a child	Pass
4.16	Heavy immobile toys	NA
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
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



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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
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 teethers	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



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

Remark(s): NA = Not Applicable

### 2. Safety of Toys: Flammability – EN 71-2:2020

**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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Guangzhou Depuhua Test Services Co. Ltd.

A301, 3/F., Xinghui Building, Guanqiao, Shilou, Panyu District, Guangzhou, Guangdong e-mail: stsgz@stsapp.com
Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699 Web://www.stsgz.com





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### 3.

Safety of Toys: Migration of Certain Elements EN 71-3:2019+A1:2021 General elements determined by ICP-MS Chromium(VI) determined by IC-ICP-MS Organic tin determined by GC-MS

			Mat				
	Compound		Catego	ory III*1		Limit (mg/kg)	RL (mg/kg)
		1	2	2 3 4			(9/9)
1	Aluminum (Al)	N.D.	16	16	N.D.	70000	10
2	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	560	10
3	Arsenic(As)	N.D.	N.D.	N.D.	N.D.	47	5
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	5
7	Chromium (III) (Cr)	N.D.	N.D.	N.D.	N.D.	460	10
8	Chromium (VI) (Cr)	N.D.	N.D.	N.D.	N.D.	0.053	0.053
9	Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	130	10
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	5
12	Manganese (Mn)	42	N.D.	N.D.	N.D.	15000	10
13	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	94	10
14	Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	930	10
15	Selenium(Se)	N.D.	N.D.	N.D.	N.D.	460	10
16	Strontium (Sr)	N.D.	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.*2	N.D.*2	N.D.*2	N.D.*2	12* <sup>2</sup>	0.2*2
19	Zinc (Zn)	12	N.D.	116	22	46000	10
	Conclusion	PASS	PASS	PASS	PASS	-	-



### **REPORT TEST**

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			Mat				
	Compound			ory III <sup>*1</sup>		Limit (mg/kg)	RL (mg/kg)
		5	8	9	10	(mg/kg)	(mg/kg)
1	Aluminum (AI)	N.D.	N.D.	N.D.	N.D.	70000	10
2	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	560	10
3	Arsenic(As)	N.D.	N.D.	N.D.	N.D.	47	5
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	5
7	Chromium (III) (Cr)	N.D.	N.D.	N.D.	N.D.	460	10
8	Chromium (VI) (Cr)	N.D.	N.D.	N.D.	N.D.	0.053	0.053
9	Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	130	10
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	5
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	10
14	Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	930	10
15	Selenium(Se)	N.D.	N.D.	N.D.	N.D.	460	10
16	Strontium (Sr)	N.D.	15	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.*2	N.D.*2	N.D.*2	N.D.*2	12*2	0.2*2
19	Zinc (Zn)	205	10	N.D.	N.D.	46000	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

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

<sup>(</sup>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



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Category III: Scraped-off material \*2: Expressed as soluble Tributyltin.

### Safety of Toys:Labeling requirement EN 71- 1:2014+A1:2018 AND THE DIRECTIVE 2009/48/EC

### Summary table:

	Observation Result	Location
Washing/Cleaning instruction	Not applicable	-
CE mark	Present	Packaging
Importer's Name & Address	Present	Packaging
Manufacturer's Name & Address	Present	Packaging
Product ID	Present	Packaging

- Remark(s): 1.According to Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soak washed. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned. According to the GUIDANCE DOCUMENT ON THE APPLICATION OF DIRECTIVE 2009/48/EC ON THE SAFETY OF TOYS, manufacturer shall not label "surface washing" on textile toys which, under the TSD, need to be soak washable."
  - 2.CE marking should be visible from outside the packaging and its height must be at least 5mm.
  - 3.Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
  - 4.Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.
  - 5.The label assessment was based on the submitted samples and the information provided by the applicant. There was no verification on the validity of such information.
- 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

				Mat	erial		Limit	RL
	Compound		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



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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.	N.D.	-
9	Sum of	5, 6 & 7	N.D.	N.D.	N.D.	N.D.	N.D.	-
	Conclu	sion	PASS	PASS	PASS	PASS	-	-

			Mat	erial	Limit	RL
Compound		5	9	(%)	(%)	
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	-	0.005
2	ВВР	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.	-6.	0.005
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.	N.D.	-
9	9 Sum of 5, 6 & 7		N.D.	N.D.	N.D.	
	Conclu	sion	PASS	PASS	-	-

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

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

Commonad		Material				Limit	RL
	Compound		3	4	5	(mg/kg)	(mg/kg)
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	N.D.	1000	10
	Conclusion	PASS	PASS	PASS	PASS	-	-



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Compound		Mat	Limit	RL	
		1	9	(mg/kg)	(mg/kg)
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	-	-

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

### **Mechanical and Physical Properties – ASTM F963-17**

**PASS** 

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



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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
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	



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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	NA
5.12	Toy Caps	NA
5.13	Art Materials	NA
5.14	Electric Toys	NA
5.16	Promotional Materials	NA
5.17	Magnets	NA
6	Instructional Literature	
6.1	Definition and Description	Pass
6.2	Crib and Playpen Toys	NA
6.3	Mobiles	NA
6.4	Toys Intended to be Assembled by an Adult	NA
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



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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

### 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

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

Compound		Material				Limit	RL
	Compound	1	2	3	4	(mg/kg)	(mg/kg)
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	-	-

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	O	Material				Limit	RL
	Compound	5	8	9	10	(mg/kg)	(mg/kg)
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	-	-

Remark(s): (a) mg/kg: milligram per kilogram (b) RL: Report limit

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

#### 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	RL
	Compound		3	4	5	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

Commonad		Material				Limit	RL
	Compound	1	6	7	9	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	N.D.	35	N.D.	100	10
	Conclusion	PASS	PASS	PASS	PASS	-	-



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Compound			Limit	RL		
		10	11	12	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram

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

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

Commonad			Mat	Limit	RL		
	Compound	2	3	4	5	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

Compound			Mat		Limit	RL	
		1	6	7	9	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	N.D.	35	N.D.	100	10
Conclusion		PASS	PASS	PASS	PASS	-	-

	P /						
Compound		Compound		Limit	RL		
		Compound	10	11	12	(mg/kg)	(mg/kg)
	1	Lead (Pb)	N.D.	N.D.	N.D.	100	10
		Conclusion	PASS	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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### 12. Phthalates (DIBP, DBP, DPENP, DHEXP, BBP, DEHP, DCHP, DINP) - CPSIA H.R. 4040 Sec. 108 CPSC-CH-C1001-09.4, Solvent extract and determined by GC/MS

Compound			Material				Limit (9/)	DI (9/)
	Comp	oouna	1	2	3	4	Limit (%)	RL (%)
1	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	DBP	Dibutylphthalate 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	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
6	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
7	DCHP	Dicycphexyl Phthalate CAS# 84-61-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
8	DINP	Diisononylphthalate CAS# 28553-12-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
	Conclusi	ion	PASS	PASS	PASS	PASS	-	-

	Material Compound			rial	1 im it (0/)	DI (0/)
	Comp	oouna	5 9		Limit (%)	RL (%)
1	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	0.1	0.005
2	DBP	Dibutylphthalate 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	Benzylbutylphthalate CAS# 85-68-7	N.D.	N.D.	0.1	0.005
6	DEHP	Diethylhexylphthalate CAS# 117-81-7	N.D.	N.D.	0.1	0.005
7	DCHP	Dicycphexyl Phthalate CAS# 84-61-7	N.D.	N.D.	0.1	0.005
8	DINP	Diisononylphthalate CAS# 28553-12-0	N.D.	N.D.	0.1	0.005
	Conclusi	ion	PASS	PASS	-	-

Remark(s): (a) RL: Report limit

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



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### 13. Mechanical and Physical Properties - SOR/2011-17

**PASS** 

Clause	Parameter	Results
3	Official languages	NR
4	Flexible film bags	NA
7	Small parts	NA
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	Pass
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 NR=Not Required

### 14. Flammability - SOR/2011-17

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

#### 15. **Lead Content (Pb) and Mercury Content (Hg)**

Canada Product Safety Laboratory Book 5 - Laboratory Policies and Procedures Part B,Test Methods Section, Method C02.2:2017&Method C-07:2019

Commonad			Mat	Limit	RL		
	Compound	2	3	4	5	(mg/kg)	(mg/kg)
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
	Conclusion	PASS	PASS	PASS	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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### 16. Soluble Migrated Elements- SOR/ 2011 - 17

Canada Product safety reference manual Book 5- Laboratory policies and procedures Part B: Test Methods Section, Method C-03: 2018, determined by ICP-OES

Compound			Material				RL
	Compound	2	3	4	5	(mg/kg)	(mg/kg)
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	-	-

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. Mechanical and Physical Properties - Australian/New Zealand Standard on Safety of Toys AS/NZS ISO 8124.1:2019

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



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Section	Testing Items	Assessment
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	Pass
4.16	Enclosures	NA 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
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
В	Safety-labeling guidelines and manufacturer's markings	
B.2	Safety-labeling guidelines	Pass
B.3	Instructional literature	Pass
_	Manufacturer's markings	Pass
B.4	The name, trademark or mark of the manufacturer or the distributor	Pass



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Section	Testing Items	Assessment
	The address of the manufacturer or the distributor	Pass

Remark(s): NA = Not Applicable

### 18. 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

Note: NA = Not Applicable.

### 19. Soluble elements Content- Australian/New Zealand Standard on Safety of Toys AS/NZS ISO 8124.3:2021,determined by ICP

	0		Material				RL
	Compound	1	2	3	4	(mg/kg)	(mg/kg)
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	-	-



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	Commonad		Mat	erial		Limit	RL
	Compound	5	8	9	10	(mg/kg)	(mg/kg)
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	-	•

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)

# 20. Phthalates content- As Client's Requirement Refer To CPSC-CH-C1001-09.4, determined by GC-MS

	0			Mat	erial		Client's	DI (0/)
	Compound		1	2	3	4	Limit (%)	RL (%)
1	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	-	0.005
2	DEHP	Di(2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	-	0.005
3	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.		0.005
4	DINP	Di-isononyl phthalate CAS# 68515-48-0	N.D.	N.D.	N.D.	N.D.	<u> </u>	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	N.D.	-	0.005
6	DIDP	Di-isodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	N.D.	-	0.005
7	DPP	Dipentyl phthalate CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	- (	0.005
8	DIBP	Di-iso-butyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	-	0.005
9	Dnpp	Phthalic acid, bis-n-pentyl ester CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	-	0.005



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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.	-	0.005
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.		0.005
12	DMEP	Dimethoxyethyl phthalate CAS# 117-82-8	N.D.	N.D.	N.D.	N.D.	-	0.005
13	DIPP	Di-isopentyl phthalate CAS# 605-50-5	N.D.	N.D.	N.D.	N.D.	-	0.005
14	PIPP	N-pentyl- isopentylphthalate O-CAS# 776297-69-9	N.D.	N.D.	N.D.	N.D.	-	0.005
15	-	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear CAS# 84777-06-0	N.D.	N.D.	N.D.	N.D.	-	0.005
16	DHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	-	0.005
17	DNHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	) -	0.005

Compound		Mat	terial	Client's	DI (0/)	
	Com	pouna	5	9	Limit (%)	RL (%)
1	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	N.D.	-	0.005
2	DEHP	Di(2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	N.D.	-	0.005
3	ВВР	Benzyl butyl phthalate CAS# 85-68-7	N.D.	N.D.	-	0.005
4	DINP	Di-isononyl phthalate CAS# 68515-48-0	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	-	0.005
6	DIDP	Di-isodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	-	0.005
7	DPP	Dipentyl phthalate CAS# 131-18-0	N.D.	N.D.		0.005
8	DIBP	Di-iso-butyl phthalate CAS# 84-69-5	N.D.	N.D.	<u>_</u>	0.005
9	Dnpp	Phthalic acid, bis-n-pentyl ester CAS# 131-18-0	N.D.	N.D.	-	0.005
10	DIHP	1,2-Benzenedicarboxylic acid, di-C6-8- branchedalkyl esters,C7- rich CAS# 71888-89-6	N.D.	N.D.	- /	0.005
11	DHNUP	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters CAS# 68515-42-4	N.D.	N.D.	_ {	0.005
12	DMEP	Dimethoxyethyl phthalate CAS# 117-82-8	N.D.	N.D.	-	0.005



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13	DIPP	Di-isopentyl phthalate CAS# 605-50-5	N.D.	N.D.	-	0.005
14	PIPP	P-pentyl- isopentylphthalate Q-CAS# 776297-69-9	N.D.	N.D.	(-)	0.005
15	-	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear CAS# 84777-06-0	N.D.	N.D.		0.005
16	DHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	-	0.005
17	DNHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	-	0.005

Remark(s): (a) RL: Report limit

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

#### 21. Lead Content (Pb) - 16 CFR 1303

CPSC-CH-E1003-09.1(Surface Coating) ,determined by AAS

Compound			Mat	erial		Limit	RL
		2	3	4	5	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram (b) RL: Report limit

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

#### Azo colourants content - Item 43 of Annex XVII of REACH Regulation (EC) No 1907/2006 & amendment 22. EC No 552/2009 and (EU) No 126/2013

ISO 14362-1:2017& ISO 14362-3:2017, determined by GC/MS and HPLC

	Compound	Material	Limit	RL
	Compound	10	(mg/kg)	(mg/kg)
1	Biphenyl-4-ylamine/4-aminobiphenyl/ Xenylamine CAS#92-67-1	N.D.	30	5
2	Benzidine CAS#92-87-5	N.D.	30	5
3	4-chloro-o-toluidine CAS#95-69-2	N.D.	30	5
4	2-Naphthylamine CAS#91-59-8	N.D.	30	5
5	o-aminoazotoluene/4-o-tolyazao-o- toluidine /4-amino-2',3- dimethylazobenzene* CAS#97-56-3	N.D.	30	5

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	Conclusion	PASS	-	-
22	4-aminoazobenzene** CAS#60-09-3	N.D.	30	5
21	o-anisidine/2-methoxyaniline CAS#90-04-0	N.D.	30	5
20	2,4,5-trimethylaniline CAS#137-17-7	N.D.	30	5
19	2,4-diaminotoluene/2,4- toluylendiamine/ methyl-m-phenylenediamine CAS#95-80-7	N.D.	30	5
18	o-toluidine/2-aminotoluen CAS#95-53-4	N.D.	30	5
17	4,4'-thiodianiline CAS#139-65-1	N.D.	30	5
16	4,4'-oxydianiline CAS#101-80-4	N.D.	30	5
15	4,4'-methylene-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'-methylene-dianiline CAS#101-14-4	N.D.	30	5
14	6-methoxy-m-toluidine/p-cresidine CAS#120-71-8	N.D.	30	5
13	4,4'-methylenedi-o-toluidine CAS#838-88-0	N.D.	30	5
12	3,3'-dimethylbenzidine/4,4'-bi-o-toluidine CAS#119-93-7	N.D.	30	5
11	3,3'-dimethoxybenzidine/o-dianisidine CAS#119-90-4	N.D.	30	5
10	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'- ylenediamine CAS#91-94-1	N.D.	30	5
9	4,4'-methylenedianiline/ 4,4'-diaminodiphenylmethane CAS#101-77-9	N.D.	30	5
8	4-methoxy-m-phenylenediamine/ 2,4-diaminoanisole CAS#615-05-4	N.D.	30	5
7	4-chloroaniline CAS#106-47-8	N.D.	30	5
6	5-nitro-o-toluidine/2-amino-4- nitrotoluol* CAS#99-55-8	N.D.	30	5

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

<sup>(</sup>c) RL: Report limit
\*: The amines o-aminoazotoluene (No 5, CAS No.97-56-3) and 2-amino-4-nitrotoluene (No 6, CAS No.99-55-8) are further reduced to o-toluidine (No 18,

CAS No. 95-53-4) and 2, 4-diaminotoluene (No 19, CAS No. 95-80-7).

\*\*: Azo colorants that are able to form 4-aminoazobenzene (No 22, CAS No. 60-09-3) generate, under the condition of this method, aniline (CAS No. 62-53-3) and 1, 4-phenylendiamine (CAS No. 106-50-3). Due to detection limits, only aniline may be detected. If aniline is detected above 5mg/kg, then the presence of these colorants should be tested by ISO 14362-3:2017.





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#### **Material List:**

Material #	Position / Sample Description
1	Brown plywood, holder*a
2	Red coating, logo*b
3	Dark blue coating, logo <sup>⋆c</sup>
4	Dark green coating, logo <sup>*d</sup>
5	Transparent coating, holder*e
6	Silvery metal, hexagonal screw*f
7	Silvery metal, nut(big)*g
8	Brown wood,holder*h
9	Brown foam,cushion
10	Brown velboa
11	Silvery metal, flat screw*i
12	Silvery metal, screw <sup>*j</sup>

Remark:

(a)\*a=the test date was copies fromSTSGZ2203242003-24,2203243039-24. (b)\*b=the test date was copies from STSGZ2203242003-1,2203243039-1.

(c)\*c=the test date was copies from STSGZ2203242003-7,2203243039-7.

(d)\*d=the test date was copies from STSGZ2203242003-5,2203243039-5. (e)\*e=the test date was copies from STSGZ2203242003-21,2203243039-21

(g)\*g=the test date was copies from STSGZ2204203071-9.
(g)\*g=the test date was copies from STSGZ2204203071-10.
(h)\*h=the test date was copies from STSGZ2204203071-12.
(j)\*i=the test date was copies from STSGZ2204203071-24.

(i)\*j=the test date was copies from STSGZ2204203071-15.



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### Photo(s):





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A301, 3/F., Xinghui Building, Guanqiao, Shilou, Panyu District, Guangzhou, Guangdong e-mail: stsgz@stsapp.com
Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699 Web://www.stsgz.com



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### 声明

### Statement

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Guangzhou Depuhua Test Services Co. Ltd.

A301, 3/F., Xinghui Building, Guanqiao, Shilou, Panyu District, Guangzhou, Guangdong e-mail: stsgz@stsapp.com
Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699 Web://www.stsgz.com

### 签发测试报告条款

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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").

2. 由此测试申请所发出的任何报告(以下简称[报告]),本公司会严格为客户保密。未经本公司的书面同意,报告的整体或部分不得复制,也不得用于广告或授权的其他用途。然而,客户可以将本公司印制的报告或认可的副本,向其客户、供货商或直接相关的其它人出示或提交。除非相关政府部门、法律或法规要求,否则未经客户同意,本公司不得将报告内容向任何第三方讨论或披露。

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3. 除非相关政府部门、法律或法院要求,否则未经公司预先书面同意,本公司毋需,也并无义务到法院对有关报告作证。 The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior

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- 9. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的,检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限,数据和信息将被处理掉。任何情况下,本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害,本公司在任何情况下也不必承担任何损害,包括(但不限于)补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权(包括疏忽)、产品责任或其他原因的惩罚性损害。

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