



CLIENT:Carpenters Manufactory LimitedREPORT NO:C80011670ADDRESS:Huang Jin Ji Industrial Zone, Shang Jie Village, QiShiDATE:March 3, 2016Town, DongGuan City, Guang Dong, ChinaDATE:March 3, 2016

Kelly Xiong Attn: Sample Description: Creative Free-standing Painting Window / Freestanding Painting Wall (1.2 X 1.4m) Quantity Submitted: 1 piece / item Supplier: Carpenters Manufactory Limited Buyer: Not provided Style/Item No.: ME06189/ME06691 P.O. No.: Not provided Labeled Age Grading: 3 +Destination: Global Country of Origin: China Date(s) of samples received: January 6, 2016 (.p.m.) **TEST METHOD & RESULTS:** Please refer to next page(s) **CONCLUSION:** Please refer to page two(2)

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	Town, DongGuan City, Guang Dong, China		

### **CONCLUSION:**

### USA:

ASTM F963-11 Physical & Mechanical Requirements 16 CFR 1500 & 1501 Physical & Mechanical Requirements ASTM F963-11 Flammability Requirements 16 CFR 1500.3 (c)(6) (vi) / 16 CFR 1500.44 Flammability Requirements ASTM F963-11 Clause 4.3.5.1 (2) Elements Migration in Surface Coating ASTM F963-11 Clause 4.3.5.2 (2) (b) Elements Migration in Substrate ASTM F963-11 Clause 4.3.5.1 (1) Total Lead in Surface Coating	PASS PASS PASS PASS <sup>#2</sup> PASS <sup>#4</sup> PASS <sup>#3</sup>
16 CFR 1303 Total Lead Content Requirements Consumer Product Safety Improvement Act of 2008 Total Lead Content Requirement [Paint or Surface Coating]	PASS <sup>#3</sup> PASS <sup>#3</sup>
ASTM F963-11 Clause 4.3.5.2 (2) (a) Total Lead in Substrate Consumer Product Safety Improvement Act of 2008 Total Lead Content Requirement [Substrate Materials] ASTM F963-11 Clause 4.3.5.2 (2) (c) Soluble Cadmium in Metallic Small Part	PASS PASS NOT APPLICABLE <sup>#1</sup>
Consumer Product Safety Improvement Act of 2008 Total Phthalate Requirement CANADA:	PASS <sup>#2</sup>
Canada Toys Regulations SOR/2011-17 Physical and Mechanical Requirements Canada Toys Regulations SOR/2011-17 Flammability Requirements (Cellulose Nitrate and Celluloid) Canada Toys Regulations SOR/2011-17 Heavy Metal Content Requirements Canada Consumer Products Containing Lead (Contact mouth) Regulation Canada Phthalates Regulation SOR/2010-298 Phthalates Content Requirements	PASS PASS PASS <sup>#3</sup> NOT APPLICABLE <sup>#1</sup> PASS <sup>#2</sup>
AU: AS/NZS ISO 8124.1:2013 Physical & Mechanical Requirements AS/NZS ISO 8124.2:2009 Flammability Requirements AS/NZS ISO 8124.3:2012 Migration of Certain Elements DEHP requirement per Australia Government	PASS PASS PASS <sup>#2,4</sup> NOT APPLICABLE <sup>#1</sup>
EU: EN 71-1:2014 Mechanical & Physical Properties EN 71-2:2011 + A1:2014 Flammability EN 71-3:2013+A1:2014 Migration of Certain Elements Total Cadmium Content and European Reach Regulation Annex XVII Total Phthalate Content European Reach Regulation Annex XVII Azo Dyes Test and European Reach Regulation Annex XVII	PASS PASS PASS <sup>#2,4</sup> PASS <sup>#2</sup> PASS <sup>#2</sup> NOT APPLICABLE <sup>#1</sup>

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#1: There is no component on the submitted test samples under the testing scopes.

#2: As claimed by client, the sample 2, 3, 4, 5 listed in the report is identical with the one in report C81021583. The test data of sample 2, 3, 4, 5 in the report was referred from report C81021583 issued on October 20, 2015.

#3: As claimed by client, the sample 2, 3, 4, 5 listed in the report is identical with the one in report C81021581. The test data of sample2, 3, 4, 5 in the report was referred from report C81021581 issued on October 20, 2015.

#4: As claimed by client, the sample 11, 12 listed in the report is identical with the one in report C81061528. The test data of sample 11, 12 in the report was referred from report C81061528 issued on November 4, 2015.

*For and on behalf of :* UL VS Shanghai Limited Shenzhen Branch

Benson Ye Technical Manager -Toys Department

**Important Notes**: The results only relate to the samples tested.

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Ms. Carol Ke Laboratory manager-Chemical Department

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### **TEST RESULTS**

1. USA

### 1.1 MECHANICAL AND PHYSICAL TEST

1.1.1 AS PER ASTM STANDARD CONSUMER SAFETY SPECFICATION FOR TOYS SAFETY F963-11

The following clauses are identified to be applicable: Age grading for testing : Ages 3+ Samples Quantity : 2 style (s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	Assessment
4.1	Material(visual check on cleanness)	Р
4.7	Accessible Edges	Р
4.8	Projections	Р
4.9	Accessible Points	Р
4.11	Nails And Fasteners	Р
4.12	Plastic Film	Р
4.15	Stability And Over-Load Requirements	Р
4.17	Wheels, Tires And Axles	Р
4.18	Holes, Clearance, And Accessibility Of Mechanisms	Р
5	Safety Labeling Requirements	Р
6	Instructional Literature	Р
7	Producer's Markings	Р

Remark: P = Pass

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### **TEST RESULTS**

# 1.1.2 AS PER 16 CFR 1500.50, THE HAZARDS OF SHARP POINTS, SHARP EDGE AND SMALL PARTS ARE ASSESSED BOTH BEFORE AND AFTER APPLICABLE USE AND ABUSE \ TESTS:

The following clauses are identified to be applicable:Age grading for testing: Ages 3+Samples Quantity: 2 style (s) x 1 piece(s)

	TEST ITEMS	SHARP POINT	SHARP EDGE
		(1500.48)	(1500.49)
	As received	Р	Р
1500.53	Impact Test	Р	Р
1500.53	Torque Test	Р	Р
1500.53	Tension Test	Р	Р
1500.53	Compression	Р	Р

Remark: P = Pass

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### TEST RESULTS

### 1.2 FLAMMABILITY TEST

### 1.2.1 AS ASTM STANDARD ON SAFETY OF TOYS F963-11 ANNEX A5:

Samples Quantity:	1 piece(s) x 2 style(s)
Requirement:	Burning rate should not exceed 0.1 inch per second along the major axis.

Results: The sample was tested to be ignited but extinguished.

# 1.2.2 AS PER U.S. CODE OF FEDERAL REGULATIONS TITLE 16 PART 1500.44 FOR RIGID AND PLIABLE SOLIDS DEFINED UNDER 16 CFR 1500.3 SECTION (C) (6) (VI):

Samples Quantity:1 piece(s) x 2 style(s)Requirement:Burning rate should not exceed 0.1 inch per second along the major axis.

Results: The sample was tested to be ignited but extinguished.

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### **TEST RESULTS**

### **1.3 CHEMICAL TESTS:**

### 1.3.1 SOLUBLE ELEMENT MIGRATION IN SURFACE COATING

- Requirement: As per ASTM F963-11 Clause 4.3.5.1 (2) requirement, materials under test shall not exceed below limit.
- Test method: Reference to ASTM F963-11 Clause 8.3, used acid extraction and analyzed by Inductively Coupled Argon Plasma Spectrometry.

Results:								
Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 2	< 6.0	<2.5	< 6.0	<6.0	<6.0	< 6.0	<6.0	<6.0
Sample 3	<6.0	<2.5	< 6.0	<6.0	<6.0	< 6.0	< 6.0	<6.0
Sample 4	< 6.0	<2.5	< 6.0	<6.0	<6.0	< 6.0	<6.0	<6.0
Sample 5	< 6.0	<2.5	< 6.0	<6.0	< 6.0	< 6.0	< 6.0	< 6.0

### Remark:

Docultor

1. All concentrations expressed in milligrams per kilogram

2. "<" means "less than"

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### **TEST RESULTS**

### 1.3.2 SOLUBLE ELEMENT MIGRATION IN SUBSTRATES

- Requirement: As per ASTM F963-11 Clause 4.3.5.2 (2) (b) requirement, materials under test shall not exceed below limit.
- Test method: Reference to ASTM F963-11 Clause 8.3, used acid extraction and analyzed by Inductively Coupled Argon Plasma Spectrometry.

Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 6	< 6.0	<2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	<6.0
Sample 7	< 6.0	<2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	<6.0
Sample 8	< 6.0	<2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	<6.0
Sample 10	< 6.0	<2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	<6.0
Sample 11	< 6.0	<2.5	< 6.0	< 6.0	< 6.0	< 6.0	<6.0	<6.0
Sample 12	< 6.0	<2.5	16.5	< 6.0	< 6.0	< 6.0	< 6.0	<6.0

Remark:

1. All concentrations expressed in milligrams per kilogram

2. "<" means "less than"

## 1.3.3 TOTAL LEAD CONTENT TEST: COATING

Requirement: As per ASTM F963-11 Clause 4.3.5.1 (1) requirement, lead content in the materials under test shall not exceed of 90ppm.

Test method: CPSC-CH-E1003-09.1 Standard operating procedure for determining Lead (Pb) in paint

Results :

	Sample 2	Sample 3	Sample 4	Sample 5
Total Lead	14.6	<10.0	<10.0	<10.0

### All concentrations expressed in milligrams per kilogram "<" means "less than"

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### TEST RESULTS

# 1.3.4 TOTAL LEAD CONTENT TEST: WET-ASHING DIGESTION AND DETECTED WITH AAS/ICP

Criteria: The submitted samples must meet the Total Lead Limit of 90ppm as stated in 16 CFR 1303

Test method: CPSC-CH-E1003-09.1 Standard operating procedure for determining Lead (Pb) in paint

**Results:** 

	Sample 2	Sample 3	Sample 4	Sample 5
Total Lead	14.6	<10.0	<10.0	<10.0

All concentrations expressed in milligrams per kilogram "<" means "less than"

### 1.3.5 TOTAL LEAD CONTENT TEST: COATING

Requirement : The submitted samples must meet the Total Lead Limit of 90ppm as per Consumer Product Safety Improvement Act of 2008

Test method: CPSC-CH-E1003-09.1 Standard operating procedure for determining Lead (Pb) in paint

**Results:** 

	Sample 2	Sample 3	Sample 4	Sample 5
Total Lead	14.6	<10.0	<10.0	<10.0

All concentrations expressed in milligrams per kilogram "<" means "less than"

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### TEST RESULTS

### 1.3.6 TOTAL LEAD CONTENT TEST: SUBSTRATE

- Requirement: As per ASTM F963-11 Clause 4.3.5.2 (2) (a) requirement, lead content in the materials under test shall not exceed of 100ppm.
- Test method: CPSC-CH-E1001-8.3 Standard operating procedure for determining total Lead (Pb) in metal; CPSC-CH-E1002-8.3 Standard operating procedure for determining total Lead (Pb) in non-metal

**Results:** 

Total Lead	<u>Sample 1</u>	<u>Sample 6/7/8</u>	<u>Sample 9/10</u>	<u>Sample 11</u>	<u>Sample 13</u>
	<10.0	<10.0	<10.0	<10.0	<10.0
Total Lead	<u>Sample 14</u>	Sample 15	<u>Sample 16</u>	<u>Sample 17</u>	Sample 18
	<10.0	<10.0	<10.0	<10.0	<10.0
Total Lead	<u>Sample 19</u> <10.0				

All concentrations expressed in milligrams per kilogram "<" means "less than"

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### TEST RESULTS

### 1.3.7 TOTAL LEAD CONTENT TEST: SUBSTRATE

Requirement: The submitted samples must meet the Total Lead Limit of 100ppm as per Consumer Product Safety Improvement Act of 2008

Test method: CPSC-CH-E1001-8.3 Standard operating procedure for determining total Lead (Pb) in metal children's product (including children's metal jewelry); CPSC-CH-E1002-8.3 Standard operating procedure for determining total Lead (Pb) in non-metal children's products.

### Results:

Total Lead	<u>Sample 1</u>	<u>Sample 6/7/8</u>	<u>Sample 9/10</u>	<u>Sample 11</u>	<u>Sample 13</u>
	<10.0	<10.0	<10.0	<10.0	<10.0
Total Lead	<u>Sample 14</u>	<u>Sample 15</u>	<u>Sample 16</u>	<u>Sample 17</u>	<u>Sample 18</u>
	<10.0	<10.0	<10.0	<10.0	<10.0
Total Lead	<u>Sample 19</u> <10.0				

All concentrations expressed in milligrams per kilogram "<" means "less than"

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CLIENT:Carpenters Manufactory LimitedREPORT NO:C80011670ADDRESS:Huang Jin Ji Industrial Zone, Shang Jie Village, QiShiDATE:March 3, 2016Town, DongGuan City, Guang Dong, ChinaDATE:March 3, 2016

### **TEST RESULTS**

### 1.3.8 TOTAL PHTHALATE TEST

Requirement	:	DEHP, DBP or BBP content shall not be more than 0.1% by weight in toys and childcare article. DINP, DIDP or DNOP content shall not be more than 0.1% by weight in toys and childcare article which can be placed in the mouth by children.						
Test Method	:	CPSC-CH-C phthalates.	CPSC-CH-C1001-09.3, Standard operating procedure for determination of phthalates.					
Results	:							
Sample ID Plasticiser Values (w/w)								
		DBP	BBP	DEHP	DNC	DP DINP	DIDP	
Sample 2 Sample 3		ND ND	ND ND	ND ND	NE NE		ND ND	
Sample 4		ND	ND	ND	NE		ND	
Sample 5		ND	ND	ND	NE		ND	
Remarks: 1) Detection Limit for each phthalate = 0.005% 2) ND= not detected								
, E	OBP BBP DIDP	•	phthalate utyl phthalate ecyl" phthalat		DEHP DINP DNOP	= Di (2-Ethylhex = Di-"isonomy" = Di -n-octal pht	phthalate	

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### **TEST RESULTS**

- 2. CANADA
- 2.1 MECHANICAL AND PHYSICAL TEST

### AS PER CANADA TOYS REGULATIONS, SOR/2011-17

The following clauses are identified to be applicable:Age grading for testing: Ages 3+Samples Quantity: 2 style (s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4	Packaging Mechanical hazard	Р
8	Exposed Metal Edges	Р
9	Ends	Р
10	Exposed Plastic Parts	Р
11	Exposed Wooden Surfaces, Edges And Corners	Р
13	Fasteners	Р

Remark: P = Pass

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### TEST RESULTS

### 2.2 FLAMMABILITY TEST

# AS PER CANADA TOYS REGULATIONS SOR/2011-17 SECTION 21 (CELLULOSE NITRATE AND CELLULOID)

- Requirement: Celluloid (cellulose nitrate) and materials with the same behaviour in fire (except when used in varnish or paint) shall not be used in the manufacture of toys.
- Results: The submitted sample(s) complied with this requirement.

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### TEST RESULTS

### 2.3 CHEMICAL TESTS:

### 2.3.1 HEAVY METAL CONTENT TEST :CANADA TOYS REGULATION SOR/2011-17

Requirement : Surface coating applied to Toys shall comply with heavy metal requirement as below table.

**Results:** 

	Total	Total	Soluble	Soluble	Soluble	Soluble	Soluble
Elements	Lead	Mercury	Antimony	Arsenic	Barium	Cadmium	Selenium
Limits	< 90	None	< 1000	< 1000	< 1000	< 1000	< 1000
Sample 2	14.6	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 3	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 4	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 5	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	< 50.0

All concentrations expressed in milligrams per kilogram "<" means "less than"

"N/D" means "None Detected"

\*\*Detection Limit is 10.0 milligrams per kilogram.

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### TEST RESULTS

### 2.3.2 CHEMICAL TESTS:

# TOTAL PHTHALATE TEST: CLIENT'S REQUIREMENT WITH REFERENCE TO CANADA PHTHALATES REGULATION SOR/2010-298

Requirement	:	The vinyl in a toy or childcare article must contain not more than 1,000 mg/kg of DEHP, DBP, or BBP.
		The vinyl in any part of a toy or childcare article that can, in a reasonably foreseeable manner, be placed in the mouth of a child under four years of age must contain not more than 1,000 mg/kg of DINP, DIDP, or DNOP.

Method	:	C-34
Results	:	

Sample ID			lues (w/w)	<u>(w/w)</u>			
	DBP	BBP	DEHP	DNOP	DINP	DIDP	
Sample 2	ND	ND	ND	ND	ND	ND	
Sample 3	ND	ND	ND	ND	ND	ND	
Sample 4	ND	ND	ND	ND	ND	ND	
Sample 5	ND	ND	ND	ND	ND	ND	

Remarks: 1) Detection Limit for each phthalate = 0.005% 2) ND= not detected

Key	:	DBP	= Dibutyl Phthalate	DEHP	= Di (2-Ethylhexyl) Phthalate
		BBP	= Benzyl butyl Phthalate	DINP	= Di-"isononyl" phthalate
		DIDP	= Di-"isodecyl" phthalate	DNOP	= Di -n-octyl phthalate

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### **TEST RESULTS**

3. AUSTRALIA

### 3.1 MECHANICAL AND PHYSICAL TEST

# AS PER INTERNATIONAL STANDARD ON SAFETY OF TOYS AS/NZS ISO 8124.1:2013 SAFETY ASPECTS RELATED TO MECHANICAL AND PHYSICAL PROPERTIES.

The following clauses are identified to be applicable:

Age grading for testing	:	Ages 3+
Samples Quantity	:	2 style (s) x 1 piece(s)
		1 piece(s) Creative Free-standing Painting Window / Freestanding
		Painting Wall (1.2 X 1.4m) Safety labelling guidelines and
		manufacturer's markings[Second Submission Sample]

<u>Clause</u>	<u>Test Items</u>	Assessment
4.1	Normal use	Р
4.2	Reasonably foreseeable abuse	Р
4.3	Material	Р
4.6	Edges	Р
4.7	Points	Р
4.8	Projections	Р
4.10	Plastic film or plastic bags in packaging and in toys	Р
4.13	Holes, clearances and accessibility of mechanisms	Р
4.15	Stability and overload requirement	Р
ANNEX B	Safety labelling guidelines and manufacturer's markings	Р

Remark: P = Pass

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### TEST RESULTS

### 3.2 FLAMMABILITY TEST

# AS PER AUSTRALIAN/NEW ZEALAND STANDARD ON SAFETY OF TOYS AS/NZS ISO 8124.2:2009 CLAUSE 4.1 GENERAL REQUIREMENT (CELLULOSE NITRATE):

- Requirement: Celluloid (cellulose nitrate) and materials with the same behaviour in fire (except when used in varnish or paint) shall not be used in the manufacture of toys.
- Results: The submitted sample(s) complied with this requirement.

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### TEST RESULTS

### **3.3 CHEMICAL TESTS:**

### 3.3.1 MIGRATION OF CERTAIN ELEMENTS : AZ/NZS ISO 8124.3:2012

Results:								
Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 2	<6.0	<2.5	<6.0	< 6.0	<6.0	< 6.0	<6.0	<6.0
Sample 3	<6.0	<2.5	<6.0	< 6.0	<6.0	< 6.0	<6.0	<6.0
Sample 4	<6.0	<2.5	<6.0	< 6.0	< 6.0	< 6.0	< 6.0	<6.0
Sample 5	<6.0	<2.5	<6.0	< 6.0	<6.0	< 6.0	<6.0	<6.0
Sample 6	<6.0	<2.5	<6.0	< 6.0	<6.0	< 6.0	<6.0	<6.0
Sample 7	<6.0	<2.5	<6.0	< 6.0	<6.0	< 6.0	<6.0	<6.0
Sample 8	<6.0	<2.5	<6.0	< 6.0	< 6.0	< 6.0	< 6.0	<6.0
Sample 9	<6.0	<2.5	<6.0	< 6.0	<6.0	< 6.0	<6.0	<6.0
Sample 10	<6.0	<2.5	<6.0	< 6.0	< 6.0	< 6.0	< 6.0	<6.0
Sample 11	<6.0	<2.5	<6.0	< 6.0	< 6.0	< 6.0	< 6.0	<6.0
Sample 12	<6.0	<2.5	16.5	< 6.0	<6.0	<6.0	< 6.0	<6.0

### **Remark:**

- 1. Method for determination of each soluble element present
  - a) Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury and Selenium are determined by Inductively Coupled Plasma Optical Emission Spectroscopy.

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### **TEST RESULTS**

4. EU

### 4.1 MECHANICAL AND PHYSICAL TEST

### AS PER EUROPEAN STANDARDS ON SAFETY OF TOYS EN 71-1: 2014

The following clauses are identified to be applicable:Age grading for testing: Ages 3+Samples Quantity: 2 style (s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	Assessment
4.1	Material Cleanliness	Р
4.2	Assembly	Р
4.7	Edges	Р
4.8	Points And Metallic Wires	Р
4.9	Protruding parts	Р
4.16	Heavy immobile toys	Р
6	Packaging	Р

Remark: P = Pass

Warnings and safety instructions shall be written in the languages easily understood by consumers of the country in which the toy is to be sold. Only English version was reviewed.

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### TEST RESULTS

### 4.2 FLAMMABILITY TEST

### AS PER EUROPEAN STANDARD ON SAFETY OF TOYS EN 71-2:2011+ A1:2014 SECTION 4.1 GENERAL REQUIREMENT (CELLULOSE NITRATE):

Requirement: Celluloid (cellulose nitrate), except when used in varnish, paint or glue, or in balls of the type used for table tennis or similar games, and materials with the same behaviour in fire as celluloid, shall not be used in the manufacture of toys.

Results: The submitted sample(s) complied with this requirement.

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### **TEST RESULTS**

### 4.3 CHEMICAL TESTS:

### 4.3.1 ELEMENTS MIGRATION WITH REFERENCE TO 2009/48/EC AND ITS AMENDMENT

Test Method: EN71-3: 2013+A1:2014 Migration of certain elements

Results:						
Elements <sup>1</sup>	<u>Limits</u>	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6
	(Scraped off material)					
Antimony	560	< 5.0	< 5.0	< 5.0	< 5.0	<5.0
Arsenic	47	<2.5	<2.5	<2.5	<2.5	<2.5
Barium	18750	<5.0	< 5.0	< 5.0	< 5.0	<5.0
Cadmium	17	<5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium III <sup>2</sup>	460	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium VI <sup>2</sup>	0.2	$< 0.2^{\Delta}$	${<}0.2^{\Delta}$	${<}0.2^{\scriptscriptstyle\Delta}$	${<}0.2^{\scriptscriptstyle\Delta}$	$< 0.2^{\Delta}$
Lead	160	<5.0	< 5.0	< 5.0	< 5.0	< 5.0
Mercury	94	<5.0	< 5.0	< 5.0	< 5.0	< 5.0
Selenium	460	<5.0	< 5.0	< 5.0	< 5.0	< 5.0
Aluminum	70,000	<50	<50	<50	<50	<50
Boron	15,000	<50	<50	<50	<50	<50
Cobalt	130	<5.0	< 5.0	< 5.0	< 5.0	< 5.0
Copper	7700	<50	<50	<50	<50	<50
Manganese	15,000	<5.0	< 5.0	< 5.0	< 5.0	< 5.0
Nickel	930	<5.0	< 5.0	< 5.0	< 5.0	<5.0
Strontium	56,000	<5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin <sup>3</sup>	12					
(Expressed as						
TBT)						
Zinc	46,000	2900.0	1700.0	2000.0	<50	<50
	- ,					

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CLIENT:Carpenters Manufactory LimitedREPORT NO:C80011670ADDRESS:Huang Jin Ji Industrial Zone, Shang Jie Village, QiShiDATE:March 3, 2016Town, DongGuan City, Guang Dong, ChinaDATE:March 3, 2016

### **TEST RESULTS**

Dogulto

Results:						
Elements <sup>1</sup>	<u>Limits</u>	Sample 7	Sample 8	Sample 9	Sample 10	Sample 11
	(Scraped off material)		•	•	*	•
Antimony	560	< 5.0	< 5.0	<5.0	< 5.0	< 5.0
Arsenic	47	<2.5	<2.5	<2.5	<2.5	<2.5
Barium	18750	< 5.0	< 5.0	< 5.0	< 5.0	<5.0
Cadmium	17	< 5.0	< 5.0	<5.0	< 5.0	< 5.0
Chromium III <sup>2</sup>	460	< 0.2	< 0.2	< 0.2	1.460	< 0.2
Chromium VI <sup>2</sup>	0.2	${<}0.2^{\Delta}$	${<}0.2^{\Delta}$	$< 0.2^{\Delta}$	< 0.2	${<}0.2^{\Delta}$
Lead	160	< 5.0	< 5.0	< 5.0	< 5.0	<5.0
Mercury	94	< 5.0	< 5.0	<5.0	< 5.0	< 5.0
Selenium	460	< 5.0	< 5.0	< 5.0	< 5.0	<5.0
Aluminum	70,000	<50	<50	<50	<50	<50
Boron	15,000	<50	<50	<50	<50	<50
Cobalt	130	< 5.0	< 5.0	<5.0	<5.0	<5.0
Copper	7700	<50	<50	<50	<50	<50
Manganese	15,000	< 5.0	< 5.0	<5.0	< 5.0	< 5.0
Nickel	930	< 5.0	< 5.0	<5.0	< 5.0	< 5.0
Strontium	56,000	< 5.0	< 5.0	<5.0	< 5.0	7.0
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin <sup>3</sup>	12					
(Expressed as						
TBT)						
Zinc	46,000	<50	<50	<50	<50	<50
	-,					

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CLIENT:Carpenters Manufactory LimitedREPORT NO:C80011670ADDRESS:Huang Jin Ji Industrial Zone, Shang Jie Village, QiShiDATE:March 3, 2016Town, DongGuan City, Guang Dong, ChinaDate:March 3, 2016

### **TEST RESULTS**

Dogulto

Results:		
Elements <sup>1</sup>	Limits	Sample 12
	(Scraped off material)	•
Antimony	560	<5.0
Arsenic	47	<2.5
Barium	18750	16.5
Cadmium	17	<5.0
Chromium III <sup>2</sup>	460	< 0.2
Chromium VI <sup>2</sup>	0.2	${<}0.2^{\scriptscriptstyle\Delta}$
Lead	160	< 5.0
Mercury	94	< 5.0
Selenium	460	< 5.0
Aluminum	70,000	<50
Boron	15,000	<50
Cobalt	130	< 5.0
Copper	7700	<50
Manganese	15,000	80.5
Nickel	930	<5.0
Strontium	56,000	< 5.0
Tin	180,000	<4.0
Organic Tin <sup>3</sup>	12	
(Expressed as		
TBT)		
Zinc	46,000	<50

All concentrations expressed in milligrams per kilogram "<" means "less than"

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CLIENT:Carpenters Manufactory LimitedREPORT NO:C80011670ADDRESS:Huang Jin Ji Industrial Zone, Shang Jie Village, QiShiDATE:March 3, 2016Town, DongGuan City, Guang Dong, ChinaDate:March 3, 2016

### TEST RESULTS

## **REMARK:**

- 1. Heavy Metals Content are Determined by ICP-MS (Induced Couple Plasma Mass Spectrometry) / ICP-OES (Induced Couple Plasma Optical Emission Spectroscopy)
- If the chromium content of the tested sample does not exceed the limits of chromium III and/or chromium VI, it is deemed to comply on the respective migration requirements of chromium III and/or chromium VI under 2009/48/EC. Otherwise, the compliance on the migration requirements of the individual chromium III and/or chromium VI should be confirmed by further speciation techniques.
  - #: The chromium VI content is determined by LC-ICP-MS
- 3. If the Organic Tin content of the tested sample projected by the tin content does not exceed the limit of organotin, it is deemed to comply on the respective migration requirement of Organic Tin under 2009/48/EC and market with "- -". Otherwise, the compliance on the migration requirement of Organic Tin is confirmed by GCMS analysis with derivatisation
- 4.  $\Delta$ : Chromium VI data is based on total Chromium

### 4.3.2 TOTAL CADMIUM CONTENT AND EUROPEAN REACH REGULATION ANNEX XVII: MICROWAVE DIGESTION AND DETECTED WITH AAS/ICP

### **Results:**

Element	Total Cadmium
Limit	< 100
Sample 2	<5.0
Sample 3	<5.0
Sample 4	<5.0
Sample 5	<5.0
Sample 6/7/8	<5.0
Sample 9/10	<5.0

All concentrations expressed in milligrams per kilogram "<" means "less than"

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### **TEST RESULTS**

### 4.3.3 TOTAL PHTHALATE TEST AND EUROPEAN REACH REGULATION ANNEX XVII

 Requirement : DEHP, DBP & BBP content shall not be more than 0.1% by weight in toys and children article. DINP, DIDP & DNOP content shall not be more than 0.1% by weight in toys and children article that can be placed in the mouth by children.
 Results :

Plasticiser Values (w/w) Sample ID DBP BBP DEHP DNOP DINP DIDP Sample 2 ND ND ND ND ND ND Sample 3 ND ND ND ND ND ND Sample 4 ND ND ND ND ND ND Sample 5 ND ND ND ND ND ND Sample 6/7/8 ND ND ND ND ND ND Sample 9/10 ND ND ND ND ND ND

Remarks: 1) Detection Limit for each phthalate = 0.005% 2) ND = not detected

Key	:	DBP	= Di-butyl phthalate	DNOP	= Di-n-octyl phthalate
		BBP	= Butyl-benzyl phthalate	DINP	= Di-iso-nonyl phthalate
		DEHP	= Di-(2-ethyl-hexyl) phthalate	DIDP	= Di-iso-decyl phthalate

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### TEST RESULTS

Key to sample(s):

Sample 1	=	Silvery metal (holder on wheels of 6691)
Sample 2	=	Bright red coating on wood (logo of both styles) (A1Y)
Sample 3	=	Dark green coating on wood (logo of both styles) (A5Y)
Sample 4	=	Dark blue coating on wood (logo of both styles) (A7Y)
Sample 5	=	Clear Lacquer coating on wood (frame of both styles) (A21Y)
Sample 6	=	Transparent plastic (board of both styles)
Sample 7	=	White plastic (bottom on board of 6691)
Sample 8	=	White plastic (wheels of 6691)
Sample 9	=	Red plastic (button on wheels of 6691)
Sample 10	=	Transparent plastic (washer on handle of both styles)
Sample 11	=	Beige plywood excluding coatings (base of 6189, frame of 6691)
Sample 12	=	Brown wood excluding coatings (frame of 6189)
Sample 13	=	Silvery metal (long screw of side body& bottom of 6691)
Sample 14	=	Silvery metal (short screw of side body of 6691)
Sample 15	=	Silvery metal (nut on short screw of side body of 6691)
Sample 16	=	Silvery metal (long screw of frame of 6189)
Sample 17	=	Silvery metal (short screw of frame of 6189)
Sample 18	=	Silvery metal (handle of both styles)
Sample 19	=	Silvery metal (screw on holder of wheels of 6691)

Date(s) of test(s) conducted:

January 26, 2016 to February 15, 2016 January 29, 2016 to March 2, 2016 [Second Submission Sample]

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**Product Photo:** 





\*\*\*\*\*\*\*\*\*\* THE END \*\*\*\*\*\*\*\*

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### APPENDIX 1 - TERMS AND CONDITIONS OF SERVICE / 附件一:服务所依据的条款和条件

### UL VS Shanghai Limited-Shenzhen Branch ("UL VS") undertakes to provide services to its Customer subject to the terms and conditions contained herein. 优力胜邦质量检测(上海)有限公司深圳分公司("乙方")承诺根据以下所列的条款向客户("甲方")提供服务。

The term of limitation of liability contained herein has been conspicuously marked to draw the attention of the Customer, the full and complete explanation of the working and legal significance of this term have been made to the Customer by UL-VS The Customer agrees that this term shall be construed as a provision of the agreement between UL-VS and lised, based to the full and complete understanding of the working and legal significance of this term. Zint Amplitang Regulations and the state of the term. Zint Amplitang Regulations and Regulations are the state of the term. Zint Amplitang Regulations and Regulations are the state of the term have been made to the Customer by UL-VS The Customer agrees that this term shall be construed as a provision of the agreement between UL-VS and lised, based of the working and legal significance of this term. Zint Amplitang Regulations and Regulations are the state of the term. Zint Amplitang Regulations and Regulations are the state of the term. Zint Amplitang Regulations and Regulations are the state of the term. Zint Amplitang Regulations and Regulations are the state of the term. Zint Amplitang Regulations are the state of the term and the term and the term and term and term and the term and term. Zint Amplitang Regulations are the state of the term and te

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- 会用计算和付款 (a) Consulting time shall be charged on a daily basis. 容询时间应当以日为基础计费。
  (b) Where the personnel of UL VS are assigned by its Customer to any in-house projects, the Customer shall be billed on an hourly basis on the compensation rates of its personnel. 当乙方的人发就其非方指定生任何信项目、甲方应当以小时为基础按此考入员的展展费率进行计费。
  Disbursements incurred on the Customer's behalf such as expenditure for communications, transportation, travel, the purchase of any materials, tools, equipment, components or parts which are directly related to the service shall be billed at costs and shall handling charge at the discretion of UL VS.
  为甲方面产生的开关如与服务直接相关的通讯、交通、差底、剩实任何原料, 正具、设备、零件编程件的费用, 应当会成本有用方计费, 且应该合一管由乙方改定的合理手续费。
- 1.3
- 1.4
- 1.5

- (c) where the Customer fails to pay within time, UL VS shall charge interest on overdue involves at the rate of 2.26 per instantion 2.26 per instantion of 2

### CONFIDENTIAL TREATMENT OF INFORMATION SUNFI 第二条 信息的保密处理

- NTIAL TREATINGN (In PROVINATION **格素的教育** Unless otherwise specifically agreed between the parties, the services rendered by UL VS to the Customer shall be on a non-exclusive best-efforts basis. **除非** 双方向子科学预行法: 由こ之方向作力提供用意务应当堂立在不择他的书题接交资值通道之上. It is explicitly agreed by UL VS and the Customer that all technical information (whether contained in models, drawings, reproductions of drawings, written reports, letters, memoranda or notes or in any other form) shall be kept strictly confidential by UL VS for the purposes of this Agreement and UL VS shall at all times use all reasonable efforts to prevent the disclosure to third particular of any part thereod unless UL VS shall and the induce that or period. Agreement and UL VS shall at all times use all reasonable efforts to prevent the disclosure to the materials provided by the Customer, or the information is necessary for performance by UL VS under this algument is a disclosure PROVIDED ALWAYS AND IT IS MUTUALLY AGREED that the confidentially shall extend for a period for the (5) years from the date of completion of its work and provided by the Customer, or the information is necessary for performance by UL VS under this Agreement in disclosure PROVIDED ALWAYS AND IT IS MUTUALLY AGREED that the confidentially shall extend for a period year to the materials provided by the Customer, or the information is necessary for performance by UL VS under this Agreement in disclosure provide by the Customer, or the information is necessary for performance by UL VS under this Agreement and to a period the Agreement and the agreement and the agreement and the agreement the agreement and the agreement and the agreement 22
- 2.3
- 行义为州安衡。或该信息在根据不紊就规定问则有管理权的法运出其的判决或止力义下或根据上述则有管理化因数机则规定的参。通知要求必要规模的。 UUL VS undertakes that the identity of its Customers and the nature of services rendered shall be kept confidential unless the Customer agrees in writing to their release <u>Pro</u> of the Customer is generally known to the public. 乙方能试剂其中方的身份的研模规模服务的性质保密。除非中方书面同意调题。但若在乙方方面没有过错行为或失误的情况下,甲方的身份被公众普遍知悉。乙方不承担责任。

### PATENT RIGHTS 第三条 专利权利

1.6

- y invention made in the performance of work for the Customer by UL VS within the field of work undertaken for the Customer, belongs to the Custom 为甲方履行工作的过程中,在为甲方所承担的工作范围内由乙方作出的任何发明属于甲方。
- UL VS's use of the aforesaid inventions shall be free of any royalty fees provided that the uses of such inventions are confined to the performance of the work for the Customer. 在为甲方履行工作的过程中使用上述发明,乙方应当免付专利使用费。
- 32

## LIMITATION OF LIABILITY 第四条 责任限制

使任務制 If any lability on the part of UL VS shall arise (whether under the express or impiled terms here of or under the relevant Chinese laws and regulations) in contract, tort or infringement, the Customer's right to recover damages for any loss of whatever nature caused by the fault or neglogence of UL VS or by any breach of its obligations or howsoever caused shall be limited to the payment by UL VS of the amount of the contract price under this Agreement and the said limitation of liability shall apply regardless of the form of action, whether in contract, tort or infringement or otherwise. In no event shall UL VS be liable for indicated ar consequential damage. The Customer hereby acknowledges and states that its losses and damages, whether direct or indirect, resulted therefrom will be sufficiently recovered by the above amount of acc2.orbite=ErdefoFine@RdRAfet (CtioER#RAFkiumTerxife, RAF, undER#RAFkiumTerxife), unprogrammed actions, hereby acknowledges and achieves and admages. The Customer hereby acknowledges and achieves and admages. The Customer hereby acknowledges and states that its losses and damages. Whether direct or indirect, resulted therefrom will be sufficiently recovered by the above amount of acc2.orbite=ErdefoFine@RdRAfet (CtioER#RAFkiumTerxife), unprogrammed actions). The customer hereby acknowledges and achieves and admages. The Customer hereby acknowledges and achieves and achieves and achieves and the customer hereby acknowledges and achieves and admage. The Customer hereby acknowledges and achieves admates admates and the admates ad

### 第五条 补偿

## in the event of actual or threatened suit against UL VS in relation to the services undertaken on behalf of the Customer or in relation to any of the Products or the Trade Mark or Patent of the Customer or of any allegation of infringement of any letters patent, registered design, trade mark or trade name, the Customer shall indemnify UL VS harmless from any liability, action, claim, demnad, costs, charges and expenses arising *there from* or expense including solicitors fees, coursel's fees in defending such actions <u>Provided Always</u> that the Customer will all to some election either effect any settlement or componing or all is own expenses defend any such action or proceeding and the Customer will all the some afta for Curt Ty The Realball BARK, a symptomer effect and the Customer and the Customer effect and settlement or componing effect and afta for Curt Ty The Realball BARK, a symptomer effect and the Customer effect and the Customer effect and the Customer effect and the Customer effect and settlement or componing effect and the Customer effect and the C

# SOLICITATION OF EMPLOYEES 第六条 雇员引诱

MAY 109 It is mutually agreed that neither party shall solicit the employees of the other for employment or hire unless prior written consent to do so is ob 双方同意能注释到事先书面同意,任何一方均不得引诱雇佣或费用另一方的雇员。

## EFFECT OF PROPOSAL 第七条 建议书的效力

■ K 开記次刀
The accompanying proposal is valid for a period of ninety (90) days from the date of the proposal unless extended in writing by UL VS. Upon the acceptance of such proposal, this appendix shall form part of the Agreement with the Customer and notwithstanding any prior discussions or prior oral or writing agreements to the contrary, the terms and conditions herein shall be applicable and take precedence over any conflicting terms contained in any documents submitted by the Customer. 所用之规认书。 像串自乙并相延展,其有效期为建设书出其之日起九十(90)日。一旦接受此建设书,本带件应当构成与甲方乙协议的一部分,且无论之前是否有与乙相议的任何讨论或以头或书面协议。本文中的条款和条件应当适用于,且取代中方提交的任何文件中所包含的任何与之 相对冲死的条款。

### DATA AND DOCUMENT RETENTION 第八条 教器和文件保密

- (b)
- 在提供服务系。乙方可以在其认为合适时保留一合其服务相关的所有文件(\*文教文件\*\*)的复印件. Unless otherwise specified or required by the applicable law, all Supporting Documents lows? a years are scheduled to be destroyed, UL VS shall give the Customer at base specified or required by the applicable law, all Supporting Documents lows? a years are scheduled to be destroyed, UL VS shall give the Customer at base specified or required by the applicable law, all Supporting Documents lows? a years are scheduled to be destroyed, UL VS shall give the Customer at law for expected by the state documents to the Customer at law for expected by the state sta

## GOVERNING LA 第九条 适用法律 9.1 This Ag

This Agreement and the rights and obligations of the parties shall in all respects be governed, construed, interpreted and operated in accordance with the relevant Chinese laws and regulations. 本协议和双方的权利义务在各方面都应当由相关的中国法律法规管辖、推断、解释和操作。

### OBLIGATIONS OF THE CUSTOMER

- #7的交易
  If the Customer intends to change the work hereunder or assign any other work to UL VS, such a change or new assignment shall be subject to a separate negotiation and agreement between both of the parties. If UL VS suffers any loss or damage because the Customer changes the contractual work undertaken by UL. VS as agreed by both parties prior to completion of the work, the Customer shall component for such losses and damages.
  #7 Int Seq 2. The S 10.2

### SAMPLES 第十一条 样品

## ULVS expects Customers to abide by all applicable regulations when shipping samples to ULVS. Improper shipping may result in additional charges for costs incurred by ULVS. (a) to identify samples to ULVS. (b) damage done to ULVS personnel or property as a result of improper packaging, labeling or omission of identifying documents. ULVS has the right to refuse receipt of any shipment that, in its discretion, is unsafe or has been shipped improperly. Any costs associated by refusal to accept shipment under this clause are the soarce responsibility of the Customer. Customeres shall informity and hold haminges. ULVS for any and all camages, expenses, fines, ludgments, labeling and costs (including attorney's fee) for advariant for not he improper packaging or shipment under this clause are the soarce by Customer. Z 方規度理方能後通新有相近年用規模定程件高速结合方, 不正确简考方式可能会导致成本理题, C 方規模取用提算用: (a) 鉴误相成分, (b) 由于不正确的包装, 标注或者识损文件的选择中方人包括地模型], a

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### MISCELLANEOUS PROVISIONS 第十三条 其他规定

- And Up SP Constants (And Up SP Constants) (And Up SP Constants)
- 13.2
- 13.3
- 13.4
- 13.5
- This report or certificate does not relieve selfers/suppliers from their contractual responsibility with regards to the quality/quantity of this delivery nor does it prejudice Customer's right to claim to during UL VS's random inspection or testing or audit. 水程完或正书未免除表方/使应为关于交付货物质量/发量方面的合同责任,也不影响甲方向卖方/供应方主张赔偿在乙方随机检查或测试或审核中未被发现的任何表面和/或隐蔽的瑕疵的权利。