



CLIENT: Carpenters Manufactory Limited REPORT NO: C80131623
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: March 8, 2016

Town, DongGuan City, Guang Dong, China

Attn: Kelly Xiong

Sample Description: Hexagon Puzzle / Spiral Wheel Board

Quantity Submitted: 2 pieces x 2 styles

Supplier: Carpenters Manufactory Limited

Buyer: Not provided

Style/Item No.: MK02297/ MK03225

P.O. No.: Not provided

Labeled Age Grading: 18 m+
Destination: Global
Country of Origin: China

Date(s) of samples received: March 2, 2016 (.p.m.)

TEST METHOD & RESULTS: Please refer to next page(s)

CONCLUSION: Please refer to page two(2)

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CONCLUSION:

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ASTM F963-11 Physical & Mechanical Requirements	PASS
16 CFR 1500 & 1501 Physical & Mechanical Requirements	PASS
ASTM F963-11 Flammability Requirements	PASS
16 CFR 1500.3 (c)(6) (vi) / 16 CFR 1500.44 Flammability Requirements	PASS
ASTM F963-11 Clause 4.3.5.1 (2) Elements Migration in Surface Coating	PASS ^{#2}
ASTM F963-11 Clause 4.3.5.2 (2) (b) Elements Migration in Substrate	PASS ^{#4}
ASTM F963-11 Clause 4.3.5.1 (1) Total Lead in Surface Coating	PASS ^{#3}
16 CFR 1303 Total Lead Content Requirements	PASS ^{#3}
Consumer Product Safety Improvement Act of 2008 Total Lead Content	PASS ^{#3}
Requirement [Paint or Surface Coating]	
ASTM F963-11 Clause 4.3.5.2 (2) (a) Total Lead in Substrate	PASS ^{#4}
Consumer Product Safety Improvement Act of 2008 Total Lead Content	PASS ^{#4}

Requirement [Substrate Materials]

ASTM F963-11 Clause 4.3.5.2 (2) (c) Soluble Cadmium in Metallic Small Part NOT APPLICABLE^{#1}

Consumer Product Safety Improvement Act of 2008 Total Phthalate Requirement PASS^{#2}

CANADA:

Canada Toys Regulations SOR/2011-17 Physical and Mechanical Requirements	PASS
Canada Toys Regulations SOR/2011-17 Flammability Requirements	PASS
(Cellulose Nitrate and Celluloid)	
Canada Toys Regulations SOR/2011-17 Heavy Metal Content Requirements	PASS ^{#3}
Canada Consumer Products Containing Lead (Contact mouth) Regulation	PASS#3,4

Canada Consumer Products Containing Lead (Contact mouth) Regulation PASS^{#3},
Canada Phthalates Regulation SOR/2010-298 Phthalates Content Requirements PASS^{#3}

AU:

AS/NZS ISO 8124.1:2013 Physical & Mechanical Requirements	PASS
AS/NZS ISO 8124.2:2009 Flammability Requirements	PASS
AS/NZS ISO 8124.3:2012 Migration of Certain Elements	$PASS^{\#2,4}$
DEHP requirement per Australia Government	$PASS^{\#2}$

EU:

EN 71-1:2014 Mechanical & Physical Properties	PASS
EN 71-2:2011 + A1:2014 Flammability	PASS
EN 71-3:2013+A1:2014 Migration of Certain Elements	$PASS^{\#2,4}$
Total Cadmium Content and European Reach Regulation Annex XVII	PASS ^{#2}
Total Phthalate Content European Reach Regulation Annex XVII	PASS ^{#2}

Azo Dyes Test and European Reach Regulation Annex XVII NOT APPLICABLE^{#1}

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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, 6, 7, 8 listed in the report is identical with the one in report C81021583. The test data of sample 2, 3, 4, 5, 6, 7, 8 in the report was referred from report C81021583 issued on October 20, 2015.

#3: As claimed by client, the sample 2, 3, 4, 5, 6, 7, 8 listed in the report is identical with the one in report C81021581. The test data of sample 2, 3, 4, 5, 6, 7, 8 in the report was referred from report C81021581 issued on October 20, 2015.

#4: As claimed by client, the sample 1, 9 listed in the report is identical with the one in report C81061528. The test data of sample 1, 9 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.

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 18 months+ Samples Quantity : 2 style(s) x 1 set(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material(visual check on cleanness)	P
4.6	Small objects	P
4.7	Accessible Edges	P
4.9	Accessible Points	P
5	Safety Labeling Requirements	P
6	Instructional Literature	P
7	Producer's Markings	P
	-	

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 18 months+ Samples Quantity : 2 style(s) x 1 set(s)

	TEST ITEMS	SHARP POINT	SHARP EDGE	SMALL PART
		(1500.48)	(1500.49)	(1501)
	As received	P	P	P
1500.53	Impact Test	P	P	P
1500.53	Torque Test	P	P	P
1500.53	Tension Test	P	P	P
1500.53	Compression	P	P	P
1500.52	Bite Test	P	P	P

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 set(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 set(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.

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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

Remark:

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.

Results:

Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 9	< 6.0	< 2.5	< 6.0	< 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
 Sample 6

 Total Lead
 14.6
 <10.0</td>
 14.4
 <10.0</td>
 17.6

 $\begin{array}{ccc} & \underline{Sample~7} & \underline{Sample~8} \\ \text{Total Lead} & <10.0 & <10.0 \end{array}$

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

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TEST RESULTS

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

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

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

Results:

Sample 2 Sample 3 Sample 4 Sample 6 Sample 5 <10.0 Total Lead 14.6 14.4 <10.0 17.6

Sample 8 Sample 7 <10.0 <10.0 Total Lead

> 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 Sample 6 Total Lead <10.0 14.4 <10.0 14.6 17.6

Sample 7 Sample 8 Total Lead <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:

Sample 9

Total Lead <10.0

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

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:

Sample 9

Total Lead <10.0

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

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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-C1001-09.3, Standard operating procedure for determination of

phthalates.

Results :

Sample ID Plasticiser Values (w/w)

	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	ND	ND	ND	ND	ND	ND
Sample 7	ND	ND	ND	ND	ND	ND
Sample 8	ND	ND	ND	ND	ND	ND

Remarks: 1) Detection Limit for each phthalate = 0.005%

2) ND= not detected

Key : DBP = Di-butyl phthalate DEHP = Di (2-Ethylhexyl) phthalate

BBP = Benzyl butyl phthalate DINP = Di-"isonomy" phthalate DIDP = Di-"isodecyl" phthalate DNOP = Di -n-octal 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 18 months+ Samples Quantity : 2 style(s) x 1 set(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
7	Small parts	P
9	Ends	P
11	Exposed Wooden Surfaces, Edges And Corners	P

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	14.4	**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
Sample 6	17.6	**N/D	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
Sample 7	<10.0	**N/D	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0
Sample 8	<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 LEAD CONTENT IN PRODUCTS CONTACT WITH MOUTH

Criteria: The submitted sample shall meet Canada Consumer products containing lead (contact with

mouth) regulation and shall not contain total lead content greater than 90 mg/Kg,

Method: Reference to Canada Product safety reference manual, Book 5, Part B, Method C-02.3

Determination for total lead in polyvinyl by closed-vessel microwave digestion and following

by Atomic Absorption Spectrometry (AAS) analysis.

Results:

Total Lead

<u>Sample 1</u> <u>Sample 9</u> <10.0

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

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TEST RESULTS

2.3.3 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 Plasticiser Values (w/w)

	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	ND	ND	ND	ND	ND	ND
Sample 7	ND	ND	ND	ND	ND	ND
Sample 8	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 18 months+ Samples Quantity : 2 style(s) x 1 set(s)

<u>Clause</u>	<u>Test Items</u>	Assessment
4.1	Normal use	P
4.2	Reasonably foreseeable abuse	P
4.3	Material	P
4.4	Small parts	P
4.6	Edges	P
4.7	Points	P
ANNEX B	Safety labelling guidelines and manufacturer's markings	P

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 1	< 6.0	< 2.5	16.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
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

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

3.3.2 DEHP Content

Criteria: Commonwealth of Australia Trade Practices Act 1974, Consumer Protection Notice No 6 of

2010 Special Gazette No S 19 (2 March 2010)

Method: CPSC-CH-C1001-09.3, Standard operating procedure for determination of phthalates.

Results:

Limit Sample 2 Sample 3 Sample 4 Sample 5

Di (2-Ethylhexyl) Phthalate 1 % ND ND ND ND

(DEHP)

Limit Sample 6 Sample 7 Sample 8 Sample 9

Di (2-Ethylhexyl) Phthalate 1 % ND ND ND ND

(DEHP)

Remarks: 1) Detection Limit for each phthalate = 0.005%

2) ND= not detected

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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 18 months+ Samples Quantity : 2 style(s) x 1 set(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material Cleanliness	P
4.7	Edges	P
4.8	Points And Metallic Wires	P
5.1	General requirements – toys intended for children under 36 months	P

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 Migration of certain elements

Elamantal	т • •,					
Elements ¹	<u>Limits</u>	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
	(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	16.5	< 5.0	< 5.0	< 5.0	< 5.0
Cadmium	17	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chromium III ²	460	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium VI ²	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	80.5	< 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 ³	12					
(Expressed as						
TBT)						
Zinc	46,000	< 50	2900.0	1145.0	1500.0	1700.0

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TEST RESULTS

Results:					
Elements ¹	<u>Limits</u>	Sample 6	Sample 7	Sample 8	Sample 9
	(Scraped off material)	_	_		_
Antimony	560	< 5.0	< 5.0	< 5.0	< 5.0
Arsenic	47	< 2.5	< 2.5	< 2.5	< 2.5
Barium	18750	< 5.0	< 5.0	< 5.0	< 5.0
Cadmium	17	< 5.0	< 5.0	< 5.0	< 5.0
Chromium III ²	460	< 0.2	< 0.2	< 0.2	< 0.2
Chromium VI ²	0.2	$< 0.2^{\Delta}$	$< 0.2^{\Delta}$	$< 0.2^{\Delta}$	$< 0.2^{\Delta}$
Lead	160	< 5.0	< 5.0	< 5.0	< 5.0
Mercury	94	< 5.0	< 5.0	< 5.0	< 5.0
Selenium	460	< 5.0	< 5.0	< 5.0	< 5.0
Aluminum	70,000	< 50	< 50	< 50	< 50
Boron	15,000	< 50	< 50	< 50	< 50
Cobalt	130	< 5.0	< 5.0	< 5.0	< 5.0
Copper	7700	< 50	< 50	< 50	< 50
Manganese	15,000	< 5.0	< 5.0	< 5.0	< 5.0
Nickel	930	< 5.0	< 5.0	< 5.0	< 5.0
Strontium	56,000	< 5.0	< 5.0	< 5.0	7.0
Tin	180,000	<4.0	<4.0	<4.0	<4.0
Organic Tin ³	12				
(Expressed as					
TBT)					
Zinc	46,000	2700.0	2400.0	< 50	< 50

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

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TEST RESULTS

REMARK:

- 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. Δ : 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	< 5.0
Sample 7	< 5.0
Sample 8	< 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

Test Method : EN 14372: 2004

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 :

Sample ID Plasticiser Values (w/w)

	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	ND	ND	ND	ND	ND	ND
Sample 7	ND	ND	ND	ND	ND	ND
Sample 8	ND	ND	ND	ND	ND	ND

Remarks: 1) Detection Limit for each phthalate = 0.005%

2) ND = not detected

DEHP = Di-(2-ethyl-hexyl) phthalate DIDP = Di-iso-decyl phthalate

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TEST RESULTS

Key to sample(s):

Sample 1 = Brown wood excluding coatings (wooden pieces of both styles)

Sample 2 = Bright red coating on wood/plywood (wooden pieces & logo on board of both styles)

(A1Y)

Sample 3 = Orange coating on wood (wooden pieces of both styles) (A2Y)

Sample 4 = Light yellow coating on wood (wooden pieces of both styles) (A3Y)

Sample 5 = Dark green coating on wood/plywood (wooden pieces & logo on board of both

styles) (A5Y)

Sample 6 = Light green coating on wood (wooden pieces of both styles) (A6Y)
Sample 7 = Light blue coating on wood (wooden pieces of both styles) (A8Y)

Sample 8 = Clear lacquer coating on wood/plywood (wooden pieces & board of both styles)

(A21Y)

Sample 9 = Beige plywood excluding coatings (board of both styles)

Date(s) of test(s) conducted: March 2, 2016 to March 4, 2016

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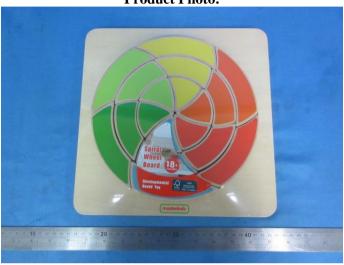




CLIENT: Carpenters Manufactory Limited REPORT NO: C80131623
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: March 8, 2016

Town, DongGuan City, Guang Dong, China

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。

COMPUTATION OF CHARGES AND PAYMENT 第一条 费用计算和付款

- **使用计算和付款**(a) Consulting time shall be charged on a daily basis. 各面时间应当日万基础计变。
 (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. 当乙方的人数美世开方指定任何的意识目,甲方应当以一时方是磁技变多人员的展播变率进行计变。
 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.
 为甲方面产生的开支如与原始互接相关的通讯、交通、差絃、期买任何原料。工具、设备、零件或部件的费用,应当按成本向甲方计费,且应包含一笔由乙方决定的合理手续费。
- 1.3
- 1.4

- 为甲方盾产格的天鱼与服务直接相关的通讯、交通、差账、购买任何原料、工具、设备、零件监查件的费用、应当线成本何中方计费、且应包含一卷由乙方妆定的合理手续费。
 Where in the opinion of UL VS the services are time consuming entailing the use of special equipment and disbursements, the Customer shall be charged on an "equipment-hour" basis on the time spent.
 当么万寿斯服务等指托大型时间,导致使用导致设备或支担时,对于各级标定费的"设备—为时"为基础收取费用。
 Payments shall be paid in RNB at its address or at such other address and in such manner as ULVS may from time to time specify. Payment made by post shall be at the risk of the Customer.
 付款应当在乙为标在地以人币币方式分付。或者根据乙方可以随时规定的共能地方或其他方式支付。以能夸方式做出的付款应当由甲方承担风险。
 中方公式在本验设存线期间:
 (10 punctually by all billings rendered to the customer from time to time;
 第二次任务设定存储为型的所保格。)
 (20 punctually by all billings rendered to the customer from time to time;
 第三次任务设定存储为型的所保格。)
 (20 punctually by all billings rendered to the customer from time to time;
 第三次任务规定合作为型的保格器。)
 (20 punctually by all billings rendered to the customer from time to to be made within 7 days from the date of invoice or the date of the Debit Note;
 第三张有务规定的是不并及是规定检查和主义图式存在是规定是有是规则主义的子文符会。
 第三张有务规定是由于文层表代表是规定是相对正式的子文符会。
 (20 punctually by all billings and by and to accrue after as well as before any judgment and is to be compounded at monthly internal;

(c) where the Customer fails to pay within time, UL VS shall charge interest or overcule invoices at the rate of 2 as per invarious of a per interests;

若甲方未能按付款。 乙方称菜通用大校聚金规以每月 2%的任何收收可息,直至全额付款。此等可息以目计算且在任何判决之前和之后都产生,并以月为问题,按本金和不断累积的利息为基数来计息。
(d) UL VS shall have a lien on any goods of the Customer until payment but the exercise of such lien shall not prevent interest continuing.

乙方核保留理中方的资格直到其足器付款。 假留置权的行役不应转得可息的继续计算。

甘作 Customer shall list to pay UL VS for any reason under Clauses 15 of if the Customer shall commit a breach of any of its obligation under this Agreement or if a receiver of the Customer is appointed or if any resolution or petition to wind up the Customer's business shall be passed or presented (except for the purpose of reconstruction), UL VS may without prejudice to its other rights either suspend or cancel the Agreement and in such an event UL VS may also suspend or cancel any other existing contracts without being liable to damages.

若甲乃属任何服务未能根据第1.5 条向之内付款。或若甲乃违反了本协议项下的任何义务。或若甲方的接管人一旦被任金、或给采甲方业务的任何议政或申请被通过或提交(为重组之目的除外),则乙方可以在不影响张色权利情及下中止或解除本协议,在此专情忍下乙方也可以中止或撤

CONFIDENTIAL TREATMENT OF INCORMATION

信息的保密处理

- NINLL TREATMENT OF INFORMATION

 (ABASKAZE)

 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.

 Reta 2万月97年9月97度: 由 2万月中万提供商服务应当主文在不补绝的和勤勉长资的基础之上.

 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 requirement for a period of time use and are associated before the prevent the disclosure PROVIDED ALWAYS AND IT IS MUTUALLY ARREED that the confidentially shall extend for a period of time (5) years from the date of completion of its work and PROVIDED PURPHER that UL VS shall not be liable under this clause if through no fault of UL VS the information is generally known to the public provided by the Customer, or the information is period by the province of the purposes of the second province of the purpose of the affordation of the purpose of the affordation of the purpose of the affordation of the purpose of the purpose of the affordation of the purp 22
- 行义为外分衡。 或该信息在根据不多或说完到两有管辖民的宪法进具的河流或正式文书或根据上连拥有管辖民间或特别包发布的命令,通到或要某金项提供的。 U.V.S. 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. 之方旅者对其中的身份和新是规则条约性数据等。除非甲方书画阿意揭露。但若在之方方面没有这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。 2.3

- 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。
- 3.2 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途发明,乙方应当免付专利使用费。

LIMITATION OF LIABILITY 第四条 责任限制

第五条 补偿

たる 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, demand, costs, natages and expenses arising there from or expense including solicitors fees, coursel's fees in defending such action <u>Provided Always</u> that the Customer will at its own election either effect any settlement or compromise or at its own expense defend any such action or proceeding and not because it is always to the effect of the effect

SOLICITATION OF EMPLOYEES

ース・リッ 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 obta 双方同意除非解到事先书面问意,任何一方均不得引诱雇佣或费用另一方的雇员。

NEW.TRIXX.7
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 written 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.

所代之程以书、除律由乙方书面延展、共有效期为建议书出具乙程允十(90)日、一旦接受此建议书,本附件应当构成的任何文件中所包含的任何对之相反的任何讨论或口头或书面协议。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文本的批评方法。

DATA AND DOCUMENT RETENTION 第八条 数据和文件保留

- - (b)

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模管辖、推断、解释和操作。

OBLIGATIONS OF THE CUSTOMER

10.2

SAMPLES 第十一条 样品

界备。
U. V. Sexpects Customers to abide by all applicable regulations when shipping samples to UL VS. Improper shipping may result in additional charges for costs incurred by UL VS. (a) to identify samples to UL VS. (b) damage done to UL VS personnel or property as a result of improper packaging, labeling or omission of identifying documents. UL VS has the right to refuse receipt of any shipment that, its discretion, is unsafe or has been shipped improperty. Any costs associated by refusal to accept shipment under this clause are the sode responsibility of the Customer. Customer is unsafe or the sample ship of the customer is unsafe or the sample ship of the customer. Outsomer is unsafe or the sample been shipped in the improper packaging or shipment of the sample by Outsomer. Customer is unsafe or the sample ship of the customer is unsafe or the sample ship of the customer. Outsomer is unsafe or the sample ship of the sample ship

-MAIL DISCLAIMER
計一条 电子解件会質声明
2.1
U. V.S shall follow the request of the Customer in the event that final report / results hereunder shall be sent by e-mail rather than by paper hard copy, UL VS considers e-mail a valuable and efficient tool, however, UL VS hereby gives cautions to the Customer that the report / results in electronic version may inadventently be modified once it is in the Customer's word processing system. Further, the current e-mail transmission technology may allow for interception of messages and reports / results by third parties. UL VS shall not be held responsible for these risks, which are out of its control. Should a report / results be sent to the Customer's were greated to expensible for other provisions of this Agreement between UL VS and the Customer, and UL VS shall in no way be liable for any damages resulting from such a transmission. Additionally, UL VS shall not be loads report / results are the report / results shall be sent to the Customer's were confidentially to other provisions of this Agreement between UL VS and the Customer, and UL VS shall in no way be liable for any damages resulting from such a transmission. Additionally, UL VS shall not be liable for any damages incurred by the Customer for any changes made to the report / results after it has been transmission. Additionally, UL VS shall not be liable for any damages incurred by the Customer for any changes made to the report / results after it has been transmission. Additionally, UL VS shall not be liable for any damages incurred by the Customer for any changes made to the report / results after it has been transmission. Additionally, UL VS shall not be liable for any damages incurred by the Customer for any changes made to the report / results after it has been transmission. Additionally, UL VS shall not be liable for any damages incurred by the Customer for any changes made to the report / results after it has been transmission. Additionally, UL VS shall not be liable for any damages incurred by the Customer by

MISCELLANEOUS PROVISIONS

13.2

13.3

13.4