



CLIENT: Carpenters Manufactory Limited REPORT NO: C80411558
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi DATE: June 18, 2015

Town, DongGuan City, Guang Dong, China

bAttn: Kelly Xiong

Sample Description: Texture and Material Teaching Set (Tray Include)

Quantity Submitted: 1 piece

Supplier: Carpenters Manufactory Limited

Buyer:
Style/Item No.:
ME05359
P.O. No.:
Not provided
Labeled Age Grading:
Destination:
Global
Country of Origin:
China

Date(s) of samples received: April 20, 2015 (p.m.) & June 3, 2015 & June 15, 2015

TEST METHOD & RESULTS: Please refer to next page(s) CONCLUSION: Please refer to page two(2)

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CONCLUSION:

USA:

ASTM F963-11 Physical & Mechanical Requirements	PASS
16 CFR 1500 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, #4}
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 ^{#1, #5}
16 CFR 1303 Total Lead Content Requirements	PASS ^{#4}
Consumer Product Safety Improvement Act of 2008 Total Lead Content	PASS ^{#4}

Requirement [Paint or Surface Coating]

ASTM F963-11 Clause 4.3.5.2 (2) (a) Total Lead in Substrate PASS Consumer Product Safety Improvement Act of 2008 Total Lead Content PASS

Requirement [Substrate Materials]

ASTM F963-11 Clause 4.3.5.2 (2) (c) Soluble Cadmium in metallic Small Part

Consumer Product Safety Improvement Act of 2008 Total Phthalate Requirement

PASS^{#2, #6}

PASS^{#2, #6}

CANADA:

Canada Toys Regulations SOR/2011-17 Physical and Mechanical Requirements

Canada Toys Regulations SOR/2011-17 Flammability Requirements

PASS

(Cally Law Nivers and Cally Leid)

(Cellulose Nitrate and Celluloid)

Canada Toys Regulations SOR/2011-17 Heavy Metal Content Requirements PASS^{#1,#5}

Canada Consumer Products Containing Lead (Contact mouth) Regulation

Canada Phthalates Regulation SOR/2010-298 Phthalates Content Requirements

NOT APPLICABLE^{#3}

PASS^{#2, #6}

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

PASS

PASS

PASS

PASS

PASS

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#1: As claimed by client, the sample 3, 4, 5 listed in the report is identical with the one in report C80781476. The test data of sample 3, 4, 5 in the report was referred from report C80781476 issued on October 23, 2014.

#2: As claimed by client, the sample 3、4、5 listed in the report is identical with the one in report C80781475. The test data of sample 3、4、5 in the report was referred from report C80781475 issued on November 6, 2014

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

#4: As claimed by client, the sample 6、7 listed in the report is identical with the one in report C80181516. The test data of sample 6、7 in the report was referred from report C80181516 issued on March 31, 2015

#5: As claimed by client, the sample 2 listed in the report is identical with the one in report C80861485. The test data of sample 2 in the report was referred from report C80861485 issued on November 20, 2014.

#6: As claimed by client, the sample 2 listed in the report is identical with the one in report C80861489. The test data of sample 2 in the report was referred from report C80861489 issued on November 20, 2014.

For and on behalf of:

UL VS Shanghai Limited Shenzhen Branch

Benson Ye

Assistant Laboratory 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 3+

Samples Quantity : 1 piece(s) x 1 style(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material(visual check on cleanness)	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 3+

Samples Quantity : 1 piece(s) x 1 style(s)

	TEST ITEMS	SHARP POINT	SHARP EDGE
		(1500.48)	(1500.49)
	As received	P	P
1500.53	Impact Test	P	P
1500.53	Torque Test	P	P
1500.53	Tension Test	P	P
1500.53	Compression	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 piece(s) x 1 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 1 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

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 6	< 6.0	< 2.5	6.5	< 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*								
Sample 9	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 10	< 6.0	< 2.5	6.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
[Second Subi	mission Sam	ple]						
Sample 11	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 12	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 13	< 6.0	< 2.5	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0
Sample 14	< 6.0	< 2.5	< 6.0	< 6.0	41.0	< 6.0	< 6.0	< 6.0
Sample 15	< 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:

 $\begin{array}{cccc} & \underline{Sample~2} & \underline{Sample~3} & \underline{Sample~4} & \underline{Sample~5} \\ \text{Total Lead} & <10.0 & <10.0 & <10.0 & <10.0 \end{array}$

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:

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:

<u>Sample 2</u> <u>Sample 3</u> <u>Sample 4</u> <u>Sample 5</u> Total Lead <10.0 <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:

	Sample 1	Sample 7	Sample 8	Sample 9	Sample 10/11/12
	[Second Submission Sample]				
Total Lead	<10.0	<10.0	<10.0	<10.0	<10.0

Sample 10

[Second Submission Sample]

Total Lead <10.0

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

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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 1	Sample 7	Sample 8	Sample 9	Sample 10/11/12
	[Second Submission Sample]				
Total Lead	<10.0	<10.0	<10.0	<10.0	<10.0

Sample 10

[Second Submission Sample]

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 :

Commis ID	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 8	ND	ND	ND	ND	ND	ND
Sample 10/11/12	ND	ND	ND	ND	ND	ND
Sample 10	ND	ND	0.009%	ND	ND	ND

[Second Submission Sample]

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 3+

Samples Quantity : 1 piece(s) x 1 style(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
8	Exposed Metal Edges	P
9	Ends	P
10	Exposed Plastic Parts	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 behavior 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	<10.0	**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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Town, DongGuan City, Guang Dong, China

TEST RESULTS

2.3.2 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 8	ND	ND	ND	ND	ND	ND
Sample 10/11/12	ND	ND	ND	ND	ND	ND
Sample 10	ND	ND	0.009%	ND	ND	ND

[Second Submission Sample]

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. EU

3.1 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 : 1 style (s) x 1 piece(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

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

3.2 FLAMMABILITY TEST

AS PER EUROPEAN STANDARDS ON SAFETY OF TOYS EN71-2:2011 + A1:2014

The following clauses are identified to be applicable:

Age grading for testing : Ages 3+

Samples Quantity : 1 piece(s) x 1 style(s)

<u>Clause(s)</u> <u>Test Items</u> <u>Assessment</u>

4.1* General-Celluloid requirement P

Remark: P = Pass

*= Test result of surface flash flammability test on pile fabric shall refer to the next test item.

FLAMMABILITY TEST TO EN 71-2:2011+A1:2014 CLAUSE 4.1 GENERAL REQUIREMENT (SURFACE FLASH)

Key to sample(s):

Sample 1 = Brown plush

Requirement: Material with a pile surface which produces surface flash when a flame is applied to the

tested material under the conditions described in Clause 5.5.1 and 5.5.2. Piled surfaces showing no momentary area of flame over the area of the piled surface remote from the

test flame are considered to meet this requirement.

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

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TEST RESULTS

3.3 CHEMICAL TESTS:

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

Test Method: EN71-3: 2013 Migration of certain elements

Results:						
Elements ¹	<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	6.5
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	54.0	45.5	< 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	27.5
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	< 50	< 50	< 50	< 50

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TEST RESULTS

Results:

Elements ¹	<u>Limits</u> (Scraped off material)	Sample 7	Sample 8*	Sample 9	Sample 10 [Second Submission	Sample 11
					Sample]	
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	6.5	< 5.0
Cadmium	17	< 5.0		< 5.0	< 5.0	< 5.0
Chromium III ²	460	0.845		< 0.2	< 0.2	< 0.2
Chromium VI ²	0.2	< 0.2		$< 0.2^{\Delta}$	$< 0.2^{\Delta}$	$< 0.2^{\Delta}$
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	155.0		< 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	6.0		< 5.0	13.0	< 5.0
Nickel	930	< 5.0		< 5.0	< 5.0	< 5.0
Strontium	56,000	7.5		< 5.0	< 5.0	< 5.0
Tin	180,000	<4.0		<4.0	<4.0	<4.0
Organic Tin ³	12					
(Expressed as						
TBT)						
Zinc	46,000	65.0		< 50	120.0	< 50

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TEST RESULTS

Results:					
Elements ¹	<u>Limits</u>	Sample 12	Sample 13	Sample 14	Sample 15
	(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	59.1	1.220
Chromium VI ²	0.2	$< 0.2^{\Delta}$	$< 0.2^{\Delta}$	< 0.2	< 0.2
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	6.5	< 5.0
Nickel	930	< 5.0	< 5.0	< 5.0	< 5.0
Strontium	56,000	< 5.0	< 5.0	< 5.0	< 5.0
Tin	180,000	<4.0	40.5	<4.0	<4.0
Organic Tin ³	12		<1.2		
(Expressed as					
TBT)					
Zinc	46,000	< 50	< 50	< 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

3.3.2 TOTAL CADMIUM CONTENT AND EUROPEAN REACH REGULATION ANNEX XVII: WET-ASHING 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 8	< 5.0
Sample 9	< 5.0
Sample 10/11/12	< 5.0
Sample 10	< 5.0
[Second Submission Sa	ımple]

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

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TEST RESULTS

3.3.3 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 8	ND	ND	ND	ND	ND	ND
Sample 9	ND	ND	ND	ND	ND	ND
Sample 10/11/12	ND	ND	ND	ND	ND	ND
Sample 10	ND	ND	0.009%	ND	ND	ND
ra 1 a 1 · ·		7				

[Second Submission Sample]

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

3.3.4 AZO DYES TEST AND EUROPEAN REACH REGULATION ANNEX XVII

TEST(S) CONDUCTED:

TEST METHOD ACCORDING TO THE OFFICIAL TEST PROCEDURES EN 14362-1:2012 FOR TEXTILE, EN ISO 17234-1:2010 FOR LEATHER MATERIALS. THE PRESENCE OF 4-AMINOAZOBENZENE IS DETERMINED BY EN 14362-3:2012 FOR TEXTILE, EN ISO 17234-2:2011 FOR LEATHER MATERIALS. REMOVAL OF FAT BY N-HEXANE (IN CASE OF LEATHER), TREATMENT WITH CITRIC BUFFER, REDUCTIVE CLEAVAGE WITH SODIUM DITHIONITE, EXTRACTION WITH ETHER, DETECTION BY GC/MS AND/OR HPLC/DAD. (DETECTION LIMIT: 5mg/kg)

LIST OF AROMATIC AMINES

(DETECTION LIMIT: 5mg/kg)

	01	BENZIDINE	13	3,3'-DIMETHYL-4,4'-
--	----	-----------	----	---------------------

DIAMINODIPHENYLMETHANE

02 4-AMINODIPHENYL 14 P-CRESIDINE

03 4-CHLORO-O-TOLUIDINE 15 4,4'-METHYLENE-BIS-(2-CHLOROANILINE)

04 2-NAPHTHYLAMINE 16 4,4'-OXYDIANILINE 05 O-AMINOAZOTOLUENE 17 4,4'-THIODIANILINE

06 2-AMINO-4-NITROTOLUENE 18 O-TOLUIDINE

07 P-CHLOROANILINE 19 2,4,5-TRIMETHYLANILINE 08 2,4'-DIAMINOANISOLE 20 2,4-TOLUYLENEDIAMINE

09 4,4'-DIAMINODIPHENYLMETHANE 21 O-ANISIDINE

10 3,3'-DICHLOROBENZIDINE 22 4-AMINOAZOBENZENE

11 3,3'-DIMETHOXYBENZIDINE12 3,3'-DIMETHYLBENZIDINE

SAMPLETEST METHODAMINE DETECTEDRESULTSample 13EN 14362-1:2012NOT DETECTEDPASSSample 14EN 14362-1:201224.9mg/kg 3,3'-PASS

DIMETHOXYBENZI DINECAS NO. 119-

90-4

NOTE: PASS = LESS THAN OR EQUAL TO 30 mg/kg

FAIL = MORE THAN 30 mg/kg

LIMIT = 30 mg/kg (NOT APPLICABLE FOR COMBINE TEST)

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TEST RESULTS

THE SUBMITTED SAMPLE DID NOT CONTAIN THE 22 FORBIDDEN AMINES ACCORDING TO REGULATION (EC) NO. 1907/2006 ON REACH ANNEX XVII ITEM NO 43 AND APPENDIX 8 AS AMENDED BY COMMISSION REGULATION (EC) NO. 552/2009.

INTERPRETATION OF TEST RESULTS:

- IN THE CASE OF LEVELS PER AMINE COMPONENT <= 25 mg/kg: NOT DETECTED.
 ACCORDING TO THE ANALYSIS AS CARRIED OUT, AZO COLOURANTS BANNED
 UNDER THE ORDINANCE ON COMMODITIES WERE NOT DETECTED IN THE
 ARTICLES SUBMITTED.
- 2. IN THE CASE OF LEVELS PER AMINE COMPONENT > 30 mg/kg. THE ANALYSIS RESULT SUGGESTS THAT THE ARTICLE SUBMITTED HAS BEEN MANUFACTURED OR TREATED BY USING AZO COLOURANTS BANNED UNDER THE ORDINANCE ON COMMODITIES.
- 3. IN CASE OF A RESULT BETWEEN 25 AND 30 mg/kg. WE REMARK THAT DUE TO CUSTOMER SPECIFICATION, THESE MEASUREMENT VALUES REPRESENT A BORDER LINE CASE.

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TEST RESULTS

Key to sample(s):

Sample 1 Silvery metal sheet (block, board)

Sample 2 Orange-red coating on wood (A1Y) (logo) Sample 3 Dark green coating on wood (A5Y) (logo)

Sample 4 Dark blue coating on wood/plywood (A7Y) (lettering & logo)

Sample 5 Clear lacquer coating on wood/plywood (A21Y) (board, box, blocks)

Sample 6 Brown wood excluding coatings (box, blocks) Sample 7 Beige plywood excluding coating (box, board) =

Sample 8* Transparent glue (joint on blocks) Sample 9 Transparent plastic (block, board) Sample 10 Brown soft plastic (block, board) Sample 11 = Black soft plastic (block, board) Sample 12 White Velcro (block, board) Sample 13 Brown plush (block, board) Sample 14 Blue fabric (block, board)

Sample 15 White fabric (cord)

Date(s) of test(s) conducted: May 8, 2015 to May 15, 2015

June 4, 2015 to June 17, 2015 [Second Submission Sample]

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^{*:} Test specimen less than 10 mg is not required to test the soluble migrated elements according to ASTM F963-11 Clause 8.3.3.6 (2) and 8.3.5.3 (2) & EN71-3: 2013.





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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 wording 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 itself, based on the full and complete understanding of the wording and legal significance of this term.

2.万均本所得那条已经胜门可谓的协议已经提下可谓的协议已经是下户中方径。于且对法的行文经验的任务的代表的文字经验的特别记经是下户。

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

- 使用计算和转数
 (a) Consulting time shall be charged on a daily basis. 各面时间应当日乃基础计变。
 (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报签任何的意项目,甲方应当以一时为基础技术多人员的规模要率进行计变。
 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

(c) where the Customer fails to pay within time, UL VS shall charge interest on 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是何效。 但密型投码行使不应够得可息的继续计算。

甘作 Customer shall liet 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 条向之内体。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,在此专情记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 all 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 in the UL VS of the information is generally known to UL VS, or the purposes of the adversarial publication of the information of the Customer and the Customer of the 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污痕或正式、平规根据上连拥有管辖民间或特别相互布的命令。 通过或要某金项提供的。 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律条约性景像是,除非甲方书画阿意揭露。但若在之方方面没有这精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

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.

所成之股北书,接着由乙方书面延展,其有效期为建议书出其乙目起九十(90)日,一旦接受此建议书,本附件应当构成的任何文本内外的企业与成为任何对企业与成本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完成各种。

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. Outcomer is unsafe or the sample been shipped in the improper packaging or shipment under this clause are the sode responsibility of the Customer. Outcomer is unsafe or the sample ship of the improper packaging or shipment under this clause are the sode responsibility of the Customer. Outcomer is unsafe or the improper packaging or shipment under this clause are the sode responsibility of the Customer. Outcomer is unsafe or the improper packaging or shipment under this clause are the sode of the sample of the

MISCELLANEOUS PROVISIONS

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