



中国认可
国际互认
检测
TESTING
CNAS L1114

TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
REPORT NO: C81541731
DATE: August 23, 2017

Attn: Kelly Xiong

Sample Description: Board Toy Storage Rack / Base Unit / Painting Panel / 2-Sided Magnetic Writing Panel / Time and Weather Teaching Clock

Quantity Submitted: 5 styles (MK00453: 2 pieces; others: 1 piece)
Supplier: Carpenters Manufactory Limited
Buyer: Not provided
Style/Item No.: MK10841, ME09029, ME09036, ME09050, MK00453
P.O. No.: Not provided
Labeled Age Grading: 3+ Years
Destination: Global
Country of Origin: China
Date(s) of samples received: July 17, 2017

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

CONCLUSION: Please refer to page two(2)

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CONCLUSION:

USA:

ASTM F963-16 Physical & Mechanical Requirements	PASS
16 CFR 1500&1501 Physical & Mechanical Requirements	PASS
ASTM F963-16 Flammability Requirements	PASS
16 CFR 1500.3 (c)(6) (vi) / 16 CFR 1500.44 Flammability Requirements	PASS
ASTM F963-16 Clause 4.3.5.1 (2) Elements Migration in surface coating	PASS ^{#2}
ASTM F963-16 Clause 4.3.5.2 (2) (b) Elements Migration in substrate	PASS ^{#3}
ASTM F963-16 Clause 4.3.5.1 (1) Total Lead in Surface Coating	PASS ^{#2}
16 CFR 1303 Total Lead Content Requirements	PASS ^{#2}
Consumer Product Safety Improvement Act of 2008 Total Lead Content Requirement [Paint or Surface Coating]	PASS ^{#2}
ASTM F963-16 Clause 4.3.5.2 (2) (a) Total Lead in Substrate	PASS ^{#3}
Consumer Product Safety Improvement Act of 2008 Total Lead Content Requirement [Substrate Materials]	PASS ^{#3}
ASTM F963-16 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 And Regulations Amending Toys Regulations SOR/2016-195 &SOR/2016-302 Physical And Mechanical Requirements	PASS
Canada Toys Regulations SOR/2011-17 And Regulations Amending Toys Regulations SOR/2016-195 &SOR/2016-302 Flammability Requirements (Cellulose Nitrate And Celluloid)	PASS
Flammability Requirements For Textile Fibres: SOR/2016-194	NOT APPLICABLE ^{#1}
Canada Toys Regulations SOR/2011-17 and Regulations Amending Toys Regulations SOR/2016-195 &SOR/2016-302 Heavy Metal Content Requirements	PASS ^{#2}
Canada Phthalates regulations SOR 2016-188	PASS ^{#2}
Canada Consumer Products Containing Lead (Contact mouth) regulation	NOT APPLICABLE ^{#1}

AU:

AS/NZS 8124.1:2016 Physical & Mechanical Requirements	PASS
AS/NZS ISO 8124.2:2016 Flammability Requirements	PASS
Migration Of Certain Elements : AS/NZS ISO 8124.3:2012/Amdt 1:2016	PASS ^{#2, #3}
DEHP requirement per Australia Government	NOT APPLICABLE ^{#1}

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, #3}
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, 9, 10 and 11 listed in the report is identical with the one in report C82071667. The test data of sample 2, 3, 4, 5, 6, 7, 8, 9, 10 and 11 in the report was referred from report C82071667 issued on November 28, 2016.

#3: As claimed by client, the sample 19 and 20 listed in the report is identical with the one in report C82231639. The test data of sample 19 and 20 in the report was referred from report C82231639 issued on February 21, 2017.

For and on behalf of :

UL VS Shanghai Limited Shenzhen Branch

David Mo
Assistant Manager- Toys Department

Lulu Yang
Senior Technical Officer
Chemical Department

Important Notes :

The results only relate to the samples tested.

The below tests are except from the ILAC-MRA/CNAS accreditation scope:

1. Canada Toys Regulations SOR/2011-17 And Regulations Amending Toys Regulations SOR/2016-195 & SOR/2016-302 Physical And Mechanical Requirements
2. Canada Toys Regulations SOR/2011-17 And Regulations Amending Toys Regulations SOR/2016-195 & SOR/2016-302 Flammability Requirements (Cellulose Nitrate And Celluloid)

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TEST RESULTS

1. USA

1.1 MECHANICAL AND PHYSICAL TEST

1.1.1 AS PER ASTM STANDARD CONSUMER SAFETY SPECIFICATION FOR TOYS SAFETY F963-16

The following clauses are identified to be applicable:

Age grading for testing : Ages 3+

Samples Quantity : 5 styles x 1 piece

3 styles x 1 piece - MK10841, ME09029, MK00453 - Plastic Film; Safety Labeling Requirements [Second submission sample]

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material(visual check on cleanness)	P
4.7	Accessible Edges	P
4.8	Projections	P
4.9	Accessible Points	P
4.11	Nails And Fasteners	P
4.12	Plastic Film	P
4.15	Stability And Over – Load Requirements	P
4.17	Wheels, Tires And Axles	P
4.38	Magnets	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 : 5 styles x 1 piece

	<u>TEST ITEMS</u>	<u>SHARP POINT</u> (1500.48)	<u>SHARP EDGE</u> (1500.49)	<u>(SMALL PART)</u> (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

Remark: P = Pass

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TEST RESULTS

1.2 FLAMMABILITY TEST

1.2.1 AS PER ASTM STANDARD ON SAFETY OF TOYS F963-16 ANNEX A5:

Samples Quantity: 5 styles x 1 piece
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: 5 style (s) x 1 piece(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 F963-16 Clause 4.3.5.1 (2) requirement, materials under test shall not exceed below limit.

Test method Reference to ASTM F963-16 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	7.5	<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	<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"
3. For sample 12, the sample weight used was 0.0112 gram per piece respectively.

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1.3.2 SOLUBLE ELEMENT MIGRATION IN SUBSTRATES

Requirement: As per ASTM F963-16 Clause 4.3.5.2 (2) (b) requirement, materials under test shall not exceed below limit.

Test method Reference to ASTM F963-16 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 13	<6.0	<2.5	11.5	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 14	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 15	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 16	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 17	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 18	<6.0	<2.5	9.5	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 19	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 20	<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 TOTAL LEAD CONTENT TEST: COATING

Requirement : As per ASTM F963-16 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 :

Total Lead	<u>Sample 2</u> <10.0	<u>Sample 3</u> <10.0	<u>Sample 4</u> <10.0	<u>Sample 5</u> <10.0	<u>Sample 6</u> <10.0
Total Lead	<u>Sample 7</u> <10.0	<u>Sample 8</u> <10.0	<u>Sample 9</u> <10.0	<u>Sample 10</u> <10.0	<u>Sample 11</u> <10.0
Total Lead	<u>Sample 12</u> <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: COATING

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:

	<u>Sample 2</u>	<u>Sample 3</u>	<u>Sample 4</u>	<u>Sample 5</u>	<u>Sample 6</u>
Total Lead	<10.0	<10.0	<10.0	<10.0	<10.0
	<u>Sample 7</u>	<u>Sample 8</u>	<u>Sample 9</u>	<u>Sample 10</u>	<u>Sample 11</u>
Total Lead	<10.0	<10.0	<10.0	<10.0	<10.0
	<u>Sample 12</u>				
Total Lead	<10.0				

All concentrations expressed in milligrams per kilogram
“<” means “less than”

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
REPORT NO: C81541731
DATE: August 23, 2017

TEST RESULTS

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:

Total Lead	<u>Sample 2</u> <10.0	<u>Sample 3</u> <10.0	<u>Sample 4</u> <10.0	<u>Sample 5</u> <10.0	<u>Sample 6</u> <10.0
Total Lead	<u>Sample 7</u> <10.0	<u>Sample 8</u> <10.0	<u>Sample 9</u> <10.0	<u>Sample 10</u> <10.0	<u>Sample 11</u> <10.0
Total Lead	<u>Sample 12</u> <10.0				

All concentrations expressed in milligrams per kilogram
“<” means “less than”

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi
Town, DongGuan City, Guang Dong, China

REPORT NO: C81541731
DATE: August 23, 2017

TEST RESULTS

1.3.6 TOTAL LEAD CONTENT TEST: SUBSTRATE

Requirement: As per ASTM F963-16 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> <10.0	<u>Sample 13</u> <10.0	<u>Sample 14/15</u> <10.0	<u>Sample 16/17</u> <10.0	<u>Sample 18</u> <10.0
Total Lead	<u>Sample 19</u> <10.0	<u>Sample 21</u> <10.0	<u>Sample 22</u> <10.0	<u>Sample 23</u> <10.0	<u>Sample 24</u> <10.0
Total Lead	<u>Sample 25</u> 82.9	<u>Sample 26</u> <10.0	<u>Sample 27</u> <10.0	<u>Sample 28</u> <10.0	<u>Sample 29</u> <10.0
Total Lead	<u>Sample 30</u> <10.0	<u>Sample 31</u> <10.0	<u>Sample 32</u> <10.0		

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

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
REPORT NO: C81541731
DATE: August 23, 2017

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> <10.0	<u>Sample 13</u> <10.0	<u>Sample 14/15</u> <10.0	<u>Sample 16/17</u> <10.0	<u>Sample 18</u> <10.0
Total Lead	<u>Sample 19</u> <10.0	<u>Sample 21</u> <10.0	<u>Sample 22</u> <10.0	<u>Sample 23</u> <10.0	<u>Sample 24</u> <10.0
Total Lead	<u>Sample 25</u> 82.9	<u>Sample 26</u> <10.0	<u>Sample 27</u> <10.0	<u>Sample 28</u> <10.0	<u>Sample 29</u> <10.0
Total Lead	<u>Sample 30</u> <10.0	<u>Sample 31</u> <10.0	<u>Sample 32</u> <10.0		

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

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
REPORT NO: C81541731
DATE: August 23, 2017

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
Sample 9	ND	ND	ND	ND	ND	ND
Sample 10	ND	ND	ND	ND	ND	ND
Sample 11	ND	ND	ND	ND	ND	ND
Sample 12	ND	ND	ND	ND	ND	ND
Sample 13	ND	ND	ND	ND	ND	ND
Sample 14/15	ND	ND	ND	ND	ND	ND
Sample 16/17	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 REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
REPORT NO: C81541731
DATE: August 23, 2017

TEST RESULTS

2. CANADA

2.1 MECHANICAL AND PHYSICAL TEST

AS PER CANADA TOYS REGULATIONS SOR/2011-17 AND REGULATIONS AMENDING TOYS REGULATION SOR/2016-195 & SOR/2016-302

The following clauses are identified to be applicable:

Age grading for testing : Ages 3+
Samples Quantity : 5 styles x 1 piece

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4	Packaging	P
8	Exposed Metal Edges	P
9	Ends	P
10	Exposed plastic parts	P
11	Exposed Wooden Surfaces, Edges And Corners	P
13	Fasteners	P
19	Impulsive noise	P

Remark: P = Pass

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
REPORT NO: C81541731
DATE: August 23, 2017

TEST RESULTS

2.2 FLAMMABILITY TEST

2.2.1 AS PER CANADA TOYS REGULATIONS SOR/2011-17 AND REGULATIONS AMENDING TOYS REGULATIONS SOR/2016-195 & SOR/2016-302 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 REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
REPORT NO: C81541731
DATE: August 23, 2017

TEST RESULTS

2.3 CHEMICAL TESTS:

2.3.1 HEAVY METAL CONTENT TEST: CANADA TOYS REGULATION SOR/2011-17 AND REGULATIONS AMENDING TOYS REGULATIONS SOR/2016-195 & SOR/2016-302

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

Results:

Elements	Total Lead	Total Mercury	Soluble Antimony	Soluble Arsenic	Soluble Barium	Soluble Cadmium	Soluble 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
Sample 6	<10.0	**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
Sample 9	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 10	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 11	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 12	<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 REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
REPORT NO: C81541731
DATE: August 23, 2017

TEST RESULTS

2.3.2 TOTAL PHTHALATE TEST: CANADA PHTHALATES REGULATION SOR 2016-188

Criteria : The submitted sample shall comply with Canada phthalate regulation.
DEHP, DBP and BBP: Vinyl used in Toy and child care article shall not contain more than 1000 mg/Kg of DEHP, DBP or BBP;
DINP, DIDP and DNOP: Vinyl used in any part of toy and child care article that can, in reasonably foreseeable manner, be placed the mouth of child of 4 years of age shall not contain more than 1000 mg/Kg of DINP, DIDP or DNOP

Method : Reference to Canada Product safety reference manual, Book 5, Part B, Method C-34, Determination of phthalates in polyvinyl chloride and following by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

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
Sample 9	ND	ND	ND	ND	ND	ND
Sample 10	ND	ND	ND	ND	ND	ND
Sample 11	ND	ND	ND	ND	ND	ND
Sample 12	ND	ND	ND	ND	ND	ND
Sample 13	ND	ND	ND	ND	ND	ND

Remarks: 1) Detection Limit for each phthalate = 0.005%
2) ND= not detected
3) All concentrations expressed in milligrams per kilogram

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 REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
REPORT NO: C81541731
DATE: August 23, 2017

TEST RESULTS

3. AUSTRALIA

3.1 MECHANICAL AND PHYSICAL TEST

AS PER AUSTRALIAN/NEW ZEALAND STANDARD ON SAFETY OF TOYS AS/NZS 8124.1:2016 SAFETY ASPECTS RELATED TO MECHANICAL AND PHYSICAL PROPERTIES

The following clauses are identified to be applicable:

Age grading for testing : Ages 3+

Samples Quantity : 5 styles x 1 piece

3 styles x 1 piece - MK10841, ME09029, MK00453 - Plastic film or plastic bags in packaging and in toys; Safety labeling guidelines and manufacturer's markings [Second submission sample]

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Normal use	P
4.2	Reasonably foreseeable abuse	P
4.3	Material	P
4.6	Edges	P
4.7	Points	P
4.8	Projections	P
4.10	Plastic film or plastic bags in packaging and in toys	P
4.15	Stability and overload requirement	P
4.31	Magnets and magnetic components	P
ANNEX B	Safety labeling guidelines and manufacturer's markings	P

Remark: P = Pass

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
REPORT NO: C81541731
DATE: August 23, 2017

TEST RESULTS

3.2 FLAMMABILITY TEST

AS PER AUSTRALIAN/NEW ZEALAND STANDARD ON SAFETY OF TOYS AS/NZS ISO 8124.2:2016 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.

Date(s) of test(s) conducted: July 18, 2017 to August 2, 2017
August 2, 2017 to August 17, 2017 [Second submission sample]

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SZ-FAF-001 (2013-04-10)



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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi
Town, DongGuan City, Guang Dong, China

REPORT NO: C81541731
DATE: August 23, 2017

TEST RESULTS

3.3 CHEMICAL TESTS:

3.3.1 MIGRATION OF CERTAIN ELEMENTS : AS/NZS ISO 8124.3:2012/AMDT 1:2016

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	7.5	<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	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 13	<6.0	<2.5	11.5	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 14	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 15	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 16	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 17	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 18	<6.0	<2.5	9.5	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 19	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 20	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0

Remark:

- Method for determination of each soluble element present
 - Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury and Selenium are determined by Inductively Coupled Plasma Optical Emission Spectroscopy.
- For sample 12, the sample weight used was 0.0112 gram per piece respectively.

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UL VS Shanghai Limited Shenzhen Branch
3-4F Qingyi Supermask Photoelectricity Building, No.8 Langshan 2nd Road,
North High-Tech Industrial Park, Nanshan District, Shenzhen, P.R. China

优力胜邦质量检测(上海)有限公司深圳分公司
广东省深圳市南山区高新科技园北区朗山二路8号清溢光电大厦三、四楼
电话(T): 755-26018600 / 传真(F): 755-26018626 / 网址(W): UL.com/Consumer-products



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CNAS L1114

TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
REPORT NO: C81541731
DATE: August 23, 2017

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 : 5 styles x 1 piece

1 style x 1 piece - MK00453 - Packaging [Second submission sample]

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material Cleanliness	P
4.2	Assembly	P
4.7	Edges	P
4.8	Points and metallic wires	P
4.9	Protruding parts	P
4.16	Heavy immobile toys	P
4.20	Acoustics	P
4.23	Magnets	P
6	Packaging	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 REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
REPORT NO: C81541731
DATE: August 23, 2017

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 REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi
Town, DongGuan City, Guang Dong, China

REPORT NO: C81541731
DATE: August 23, 2017

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 ¹	Limits (Scraped off material)	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6
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 ²	460	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium VI ²	0.2	<0.2 ^Δ	<0.2 ^Δ	<0.2 ^Δ	<0.2 ^Δ	<0.2 ^Δ
Lead	160	6.0	<5.0	7.5	<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 ³	12	--	--	--	--	--
(Expressed as TBT)						
Zinc	46,000	5850.0	6500.0	6400.0	5250.0	6750.0

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North High-Tech Industrial Park, Nanshan District, Shenzhen, P.R. China

优力胜邦质量检测 (上海) 有限公司深圳分公司
广东省深圳市南山区高新科技园北区朗山二路 8 号清溢光电大厦三、四楼
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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi
Town, DongGuan City, Guang Dong, China

REPORT NO: C81541731
DATE: August 23, 2017

TEST RESULTS

Results:

Elements ¹	Limits (Scraped off material)	Sample 7	Sample 8	Sample 9	Sample 10	Sample 11
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 ²	460	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium VI ²	0.2	<0.2 ^Δ	<0.2 ^Δ	<0.2 ^Δ	<0.2 ^Δ	<0.2 ^Δ
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	70.0	<50	<50	<50	55.0
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 ³	12	--	--	--	--	--
(Expressed as TBT)						
Zinc	46,000	5300.0	6300.0	5550.0	6700.0	5800.0

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi
Town, DongGuan City, Guang Dong, China

REPORT NO: C81541731
DATE: August 23, 2017

TEST RESULTS

Results:

Elements ¹	Limits (Scraped off material)	Sample 12	Sample 13	Sample 14	Sample 15	Sample 16
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	11.5	<5.0	<5.0	<5.0
Cadmium	17	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium III ²	460	<0.2	0.410	<0.2	<0.2	<0.2
Chromium VI ²	0.2	<0.2 ^Δ	<0.2	<0.2 ^Δ	<0.2 ^Δ	<0.2 ^Δ
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	575.0	<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 REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi
Town, DongGuan City, Guang Dong, China

REPORT NO: C81541731
DATE: August 23, 2017

TEST RESULTS

Results:

Elements ¹	Limits (Scraped off material)	Sample 17	Sample 18	Sample 19	Sample 20
Antimony	560	<5.0	<5.0	<5.0	<5.0
Arsenic	47	<2.5	<2.5	<2.5	<2.5
Barium	18750	<5.0	9.5	<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 ^Δ	<0.2 ^Δ	<0.2 ^Δ	<0.2 ^Δ
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	104.0	<5.0	<5.0
Nickel	930	<5.0	<5.0	<5.0	<5.0
Strontium	56,000	<5.0	9.5	8.5	<5.0
Tin	180,000	<4.0	<4.0	<4.0	<4.0
Organic Tin ³ (Expressed as TBT)	12	--	--	--	--
Zinc	46,000	<50	<50	<50	<50

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

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UL VS Shanghai Limited Shenzhen Branch
3-4F Qingyi Supermask Photoelectricity Building, No.8 Langshan 2nd Road,
North High-Tech Industrial Park, Nanshan District, Shenzhen, P.R. China

优力胜邦质量检测(上海)有限公司深圳分公司
广东省深圳市南山区高新科技园北区朗山二路8号清溢光电大厦三、四楼
电话(T): 755-26018600 / 传真(F): 755-26018626 / 网址(W): UL.com/Consumer-products



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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
REPORT NO: C81541731
DATE: August 23, 2017

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)
2. 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
5. For sample 12, the sample weight used was 0.00112 gram per piece respectively.

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SZ-FAF-001 (2013-04-10)



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国际互认
检测
TESTING
CNAS L1114

TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
REPORT NO: C81541731
DATE: August 23, 2017

TEST RESULTS

4.3.2 TOTAL CADMIUM CONTENT AND EUROPEAN REACH REGULATION ANNEX XVII: WET-ASHING DIGESTION AND DETECTED WITH AAS/ICP & 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
Sample 9	<5.0
Sample 10	<5.0
Sample 11	<5.0
Sample 12	<5.0
Sample 13	<5.0
Sample 14/15	<5.0
Sample 16/17	<5.0

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

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
REPORT NO: C81541731
DATE: August 23, 2017

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
Sample 9	ND	ND	ND	ND	ND	ND
Sample 10	ND	ND	ND	ND	ND	ND
Sample 11	ND	ND	ND	ND	ND	ND
Sample 12	ND	ND	ND	ND	ND	ND
Sample 13	ND	ND	ND	ND	ND	ND
Sample 14/15	ND	ND	ND	ND	ND	ND
Sample 16/17	ND	ND	ND	ND	ND	ND

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

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

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
REPORT NO: C81541731
DATE: August 23, 2017

TEST RESULTS

Key to sample(s):

Sample 1	=	Silvery metal (nut of ME09036 & ME09050 & ME09029)
Sample 2	=	Bright red coating (logo of MK10841 & ME09029 & MK00453) (A1Y)
Sample 3	=	Dark green coating (logo of MK10841 & ME09029 & MK00453) (A5Y)
Sample 4	=	Dark blue coating (logo of ME09029) (A7Y)
Sample 5	=	Clear Lacquer coating (body of all styles) (A21Y)
Sample 6	=	Orange coating (pattern of MK00453) (A2Y)
Sample 7	=	Light yellow coating (pattern of MK00453) (A3Y)
Sample 8	=	Light blue coating (pattern of MK00453) (A8Y)
Sample 9	=	White coating (pattern of MK00453) (A16Y)
Sample 10	=	Purple coating (pattern of MK00453) (A11Y)
Sample 11	=	Grey coating (pattern of MK00453) (A15Y)
Sample 12	=	White coating (board of ME09036)
Sample 13	=	Black soft plastic (board of ME09050)
Sample 14	=	Flesh color plastic (pointer of MK00453)
Sample 15	=	Black plastic (wheels of ME09029)
Sample 16	=	Light grey plastic (wheels of ME09029)
Sample 17	=	Bright black plastic (lock of wheels of ME09029)
Sample 18	=	Brown fiberboard (board of ME09036 & ME09050)
Sample 19	=	Beige plywood (body of ME09029 & MK10841 & MK00453)
Sample 20	=	Brown wood (frame of ME09036 & ME09050 blocks of MK00453, MK10841)
Sample 21	=	Bright silvery metal (axle of wheel of ME09029)
Sample 22	=	Bright silvery metal (screw for axle of wheel of ME09029)
Sample 23	=	Silvery metal (screw for bottom plate of ME09029)
Sample 24	=	Silvery metal (screw for clapboard on bottom of ME09029)
Sample 25	=	Silvery metal (screw for upper plate & clapboard of ME09029)
Sample 26	=	Light silvery metal (screw for side plate on both sides of ME09029)
Sample 27	=	Dark silvery metal (screw for board on both sides of ME09029)
Sample 28	=	Silvery metal (screw for top rail of ME09036 & ME09050) (A15Y)
Sample 29	=	Silvery metal (grid with solder of MK10841)
Sample 30	=	Silvery metal (plate for grid of MK10841)
Sample 31	=	Silvery metal (screw for plate of grid of MK10841)
Sample 32	=	Silvery metal (screw on both sides of MK10841)

Date(s) of test(s) conducted: July 18, 2017 to August 8, 2017

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi
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REPORT NO: C81541731
DATE: August 23, 2017

Product Photo:



***** THE END *****

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SZ-FAF-001 (2013-04-10)

UL VS Shanghai Limited Shenzhen Branch
3-4F Qingyi Supermask Photoelectricity Building, No.8 Langshan 2nd Road,
North High-Tech Industrial Park, Nanshan District, Shenzhen, P.R. China

优力胜邦质量检测(上海)有限公司深圳分公司
广东省深圳市南山区高新科技园北区朗山二路8号清溢光电大厦三、四楼
电话(T): 755-26018600 / 传真(F): 755-26018626 / 网址(W): UL.com/Consumer-products

APPENDIX 1 - TERMS AND CONDITIONS OF SERVICE / 附件一：服務所依據的條款和條件

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 ULVS. 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.

乙方对本附件第四条已经做出了明显的标识以提示甲方注意,并且对该条的文字表述和法律意义,向甲方做出了充分和完整的解释。甲方已经仔细阅读了本附件第四条,对其文字表述和法律意义已经充分和完整地理解。在此基础上甲方表示同意该条当然成为甲乙双方之间的一项约定。

COMPUTATION OF CHARGES AND PAYMENT

第一条 费用计算和付款

- 1.1 (a) Consulting time shall be charged on a daily basis.
- (b) 咨询时间应当以日为基础计算。
- 1.2 (a) 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.
- (b) 当乙方人员被其甲方指派至任何内部项目, 甲方应当以小时为基础按乙方人员的报酬费率进行计费。
- 1.3 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 include a reasonable handling charge at the discretion of UL VS.
- (b) 为甲方而发生的开支与服务直接相关的通讯、交通、差旅、购买任何原料、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。
- 1.4 Where in the opinion of UL VS the services are being consumed entailing the use of special equipment and disbursements, the Customer shall be charged on an "equipment-hour" basis on the time spent.
- (b) 当乙方判断服务将消耗大量时间, 导致使用特殊设备或支出时, 甲方将以所花费的“设备-小时”为基础收取费用。
- 1.5 Payments shall be paid in RMB 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.
- (b) 付款应当在乙方所在地以人民币方式支付, 或者根据乙方可以随时规定的其他地方或其他支付方式。以邮寄方式做出的付款应当由甲方承担风险。
- 1.6 The Customer undertakes during the continuance of this Agreement -
- (b) 甲方承诺在本协议存续期间:-
- (a) to punctually pay all billings rendered to the customer from time to time;
- (b) 准时支付不时提供给甲方的所有帐单;
- (c) unless otherwise agreed in writing, payment is to be made within 7 days from the date of Invoice or the date of the Debit Note ;
- (b) 除非另有书面约定, 付款应当在开具发票或付款通知日之后的 7 天内做出;
- (d) where the Customer fails to pay within time, UL VS shall charge customer on overdue invoices at the rate of 2% per month or 24% per annum until payment, such interest to run from day to day and to accrue after as well as before any judgment and is to be compounded at monthly intervals;
- (b) 若甲方未能按期付款, 乙方将逾期未付款金额以每月 2% 或每年 24% 的比例收取罚息, 直至全额付款。此等罚息以日计算并在任何判决之前和后都产生, 并以月为间隔, 按本金和不断累积的利息为基数来计息;
- (e) 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.
- (b) 乙方有权保留置甲方的货物直到其足额付款, 但留置权的行使不应妨碍罚息的继续计算。
- 1.6 If the Customer shall fail to pay UL VS for any reason under Article 1.5 or 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 otherwise (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.
- (b) 若甲方因任何原因未能根据第 1.5 条支付, 或者若甲方违反了本协议项下的任何义务, 或者若甲方的接管人一旦被任命, 或结果关于甲方的任何决议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其他权利情况下中止或解除本协议, 在此等情况下乙方也可以中止或解除任何其他既存合同而并不对损失负责。

CONFIDENTIAL TREATMENT OF INFORMATION

第二条 信息的保密处理

- 2.1 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.
- 2.2 除非双方另有特别约定, 乙方为甲方提供的服务应当建立在非排他的最佳努力的基础上。
- 2.3 It is explicitly agreed between 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 parties of any part thereof unless UL VS shall have first obtained the written consent of the Customer specifically authorizing such disclosure PROVIDED ALWAYS AND IT IS MUTUALLY AGREED that the confidentiality shall extend for a period of five (5) years from the date of completion of its work and PROVIDED FURTHER 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; or the information is generally known to UL VS, or is independently developed by UL VS without recourse to the materials provided by the Customer; or the information is necessary for performance by UL VS under this Agreement; or is disclosed in accordance with a judgment or writ issued by a court of competent jurisdiction.
- 2.4 双方明确约定, 乙方和甲方同意, 乙方在履行本合同过程中所获得的所有技术信息(无论其载体是模型、图纸、图纸的复制件、书面报告、信件、备忘录或记录或任何其他形式或形式)都应当由乙方作为本协议之约定的严格保密, 乙方应当始终采取一切合理的方式努力防止此等技术信息被任何第三人知晓。除非乙方已经获得甲方书面特别授权, 乙方不得向任何第三人披露此等技术信息。乙方在此项保密义务下所承担的保密义务应当自乙方完成其工作之日起持续五年(5), 且乙方在下列情况下将不承担任何责任: 在乙方之过错情况下, 该信息被公众普遍知晓; 或该信息被乙方普遍知晓; 或该信息由乙方之独立开发, 没有利用甲方提供的材料; 或该信息已由乙方根据本协议明确授权而向第三人披露。
- 2.5 乙方亦同意, 乙方应当根据本协议条款的规定向甲方提供其拥有管理权的机构结构和使命、通知或要求必须提供的。
- 2.6 UL 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 Provided Always that UL VS shall not be liable under this clause if through no fault act or failure on its part the identity of the Customer is generally known to the public.
- 2.7 乙方承诺对其客户的身份和所提供的服务性质进行保密, 除非甲方书面同意披露。但在乙方之方面没有过错或失误的情况下, 甲方的身份被公众普遍知晓, 乙方不承担责任。

PATENT RIGHTS

第三条 专利权利

- 3.1 Any 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 Customer.
在为甲方履行工作的过程中, 在为甲方所承担的工作范围内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述发明, 乙方应当免付专利使用费。

LIMITATION OF LIABILITY

第四条 责任限制

- 4.1 If any liability on the part of ULV S shall arise (whether under the express or implied terms hereof 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 negligence of ULV S or by any breach of its obligations or however caused shall be limited to the payment by ULV S 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, infringement or otherwise. In no event shall ULV S be liable for incidental or consequential damage. The Customer hereby acknowledges and states that its losses and damages, whether direct or indirect, resulted therefrom will be sufficiently covered by the above amount of compensation and shall not raise any further claim against ULV S beyond such amount.
- 4.2 无论因何原因产生任何债务或侵权责任（无论是根据协议明示或暗示或反之方义务或其他原因所造成之任何损失或损害，或根据本协议项下支付所支付给乙方的合同价款之数额，且无论诉讼或诉讼形式为何，侵权或合同纠纷），上述责任均不得超过当适用。而乙方在任何情况下都无需为连带或由此而产生的损失承担责任。甲方在此承诺并声明其因此而产生的损失和损害，无论何种形式或程度，都将由上述赔偿限额以充分弥补，且在此承诺之外不对乙方提出有任何进一步的请求。

INDEMNITY

第五条 补供

- 5.1 In the event of actual or threatened suit against ULV 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 ULV harmless from any liability, action, claim, demand, costs, charges and expenses arising therefrom or expense including solicitors fees, counsel's fees in defending such action. **Provided Always**, that the Customer will at its own election either effect any settlement or compromise or at its own expense commence and defend such action or proceeding and the Customer shall pay the costs of any settlement or compromise effected.
- 凡代表客户进行任何服务或与客户产品或服务有关之任何行为，而该等任何行为导致客户或其产品或服务涉及任何侵权、侵害专利权、注册设计、注册商标或商号之诉讼、被控侵权、侵害专利权、注册设计、注册商标或商号之诉讼，或任何其他因上述行为而产生之法律程序，则客户应当赔偿ULV因此产生之所有费用及开支，包括律师费、诉讼费及其他合理费用。但客户有权自行选择是否就上述任何侵权行为或侵害专利权、注册设计、注册商标或商号之侵权行为达成和解或妥协，或由客户自行承担费用并负责辩护上述任何侵权行为或侵害专利权、注册设计、注册商标或商号之侵权行为。

SOLICITATION OF EMPLOYEES

第六条 雇员引诱

- 6.1 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 obtained.
双方同意除非得到事先书面同意,任何一方均不得引诱雇佣或聘用另一方的雇员。

EFFECT OF PROPOSAL

第七条 建议书的效力

- 7.1 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.
- 倘若之建议书，除非由乙方书面延展，其有效期为建议书出具之日起九十（90）日。一旦接受此建议书，本附件应当构成与甲方之协议的一部分，且无论之前是否有与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，且取代甲方提交的任何文件中所包含的任何与之相关的条款。

DATA AND DOCUMENT RETENTION

第八条 数据和文件保留

- 8.1 (a) After the services are rendered, ULVS may retain a copy of all documents relating to the services (the "Supporting Documents") for as long as ULVS, in its sole discretion, deems fit. In providing services to, 乙方可以在其认为合适时保留一份与其服务相关的所有文件(“支持文件”)的复印件。
- (b) Unless otherwise specified or required by the applicable law, all Supporting Documents over 3 years of age will be automatically destroyed by ULVS without notice to the Customers. Should any or all Supporting Documents less than 3 years are scheduled to be destroyed, ULVS shall give the Customer 30 Days' written notice to the Customer's last known address of its intention to destroy the Supporting Documents. Unless the Customer makes a written request to ULVS reaching ULVS before the expiration of the said 30 days seeking delivery of those documents to the Customer, ULVS shall proceed to destroy the documents. 除非另有说明或适用法律的要求, 所有超过 3 年的支持文件将由乙方自动销毁, 无需通知。若任何少于三年的支持文件将被销毁, 乙方应当按最后被其知道的甲方地址给予甲方一份 30 日期限的书面通知, 告知其销毁该文件的意愿。除非甲方方向乙方提出书面请求, 要求将此等文件交付给甲方, 并且该请求在上述 30 日期满前送达乙方并由乙方承认使用, 否则此等文件将被销毁。
- (c) The Customer shall indemnify ULVS for any costs or expenses in responding to or opposing any subpoena, the production of any documents in court seeking the disclosure of the said documents or any information contained therein. 甲方应当赔偿乙方为回应或反对任何寻求揭示上述文件或其中包含的任何信息的传票以及向法院上制作文件的任何费用或支出。

GOVERNING LAW

第九条 适用法律

- 9.1 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

第十条 甲方的义

- 10.1 If the Customer intends to change the work hereunder or assign any other work to UL VUS, such a change or new assignment shall be subject to a separate negotiation and agreement between both of the parties. If UL VUS suffers any loss or damage because the Customer changes the contractual work undertaken by UL VUS as agreed by both parties prior to completion of the work, the Customer shall compensate for such losses and damages.
- 若甲方欲更改本协议项下的工作或向UL VUS交付任何其他工作,此变更或更改交付的工作应当由双方另行磋商和约定。若由于甲方工作内容的变更或更改交付的工作而导致乙方遭受了任何损失或损害,甲方应当赔偿此等损失和损害。
- 10.2 If the work undertaken by UL VUS hereunder requires any assistance of the Customer, the Customer shall be obliged to provide all necessary and reasonable assistance which UL VUS may deem fit. If the work undertaken by UL VUS hereunder cannot be completed due to the Customer's failure to perform its obligation to assist, UL VUS may demand the Customer performs its obligation within a reasonable period of time and may appropriately extend the time limit for its own work. If upon the expiration of such reasonable time period the Customer still fails to perform its obligation, UL VUS may terminate this Agreement, without prejudice to any other rights of UL VUS hereunder or under any applicable laws and regulations.
- 若本协议项下乙方所承担的工作需要甲方的协助,甲方有义务提供乙方视为适当的所需和合理的协助。若由于甲方未能履行其协助义务而使本协议中乙方所承担的工作无法完成,乙方可以在合理期限内催告甲方履行其义务,且可以以适当延展其工作的时间。若在上述合理期限届满后甲方仍然未能履行其义务,乙方可以以终止本协议,且不影响根据本协议或任何适用的法律法规所拥有的一切权利。

SAMPLES

第十一条 样品

11. UL VLS expects Customers to abide by all applicable regulations when shipping samples to UL VLS. Improper shipping may result in additional charges for costs incurred by UL VLS. (a) to identify samples to UL VLS; (b) damage done to UL VLS personnel or property as a result of improper packaging, labeling or omission of identifying documents. UL VLS 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 sole responsibility of the Customer. Customers must ensure that their shipments are properly packaged and labeled. The following information shall be included on each box of shipment of the sample from Customer:
- 乙方需向甲方能够确保所有所对应的规格名称准确传达给乙方。正确的寄递方式可能会导致发生额外费用，乙方收取取货费或包装费。(a) 鉴定样品成品部分；(b) 由于不正确的包装、标注或者使用错误的运输导致第三方人员伤亡或财产损失。乙方有权利拒收其判断为不安全或由不正确方式寄送的商品样品之权利。在这种情况下，由于乙方拒绝接收而产生的一切费用将由甲方承担。乙方需要对其产品贴附由乙方与甲方共同认可的标签和寄送方与收货方的部分以及全部的地址、开票、罚则、制裁以及其他费用（包括代收运费）。

E-MAIL DISCLAIMER

第十二条 电子邮

- 12.1 ULV 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. ULV considers e-mail a valuable and efficient tool, however, ULV hereby gives cautions to the Customer that the report / results in electronic version may inadvertently 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. ULV shall not be held responsible for these risks. The contents are out of its control once the report / results have been sent to the Customer by e-mail on its request. In case of a request SHALL NOT BE DEEMED AS THE CUSTOMER'S REQUEST FOR THE INTERPRETATION OF ANY DATA OR STATISTICS. The customer shall agree with the report / results by ULV uncensored. The report / results (including all attachments) shall remain the property of the Customer) via the internet or other public network shall not be transmitted to consist of any confidentiality or other legal obligations. Agreement between ULV and the Customer, and ULV shall in no way be liable for any damages resulting from such a request. Additionally, ULV shall not be liable for any damages incurred by the Customer for any changes made to the report / results after it has been transmitted.
- 若甲方要求将本协议项下最终报告/结果以电子附件而不是以纸质文件的形式寄发时，乙方应遵循甲方的此等要求。乙方视电子邮件为有用且有效的工具。然而，乙方在此警告甲方，一旦电子版报告/结果进入甲方的文字处理系统，其有可能被故意或意外修改。此外，现有的电子邮件传送技术可能会使他人截获并篡改报告/结果。因此，乙方对其在通过电子邮件向甲方提供报告/结果时的内容准确性概不负责。一旦乙方根据甲方的请求将报告/结果通过互联网或其他公共网络传输给甲方，乙方即不能控制该报告/结果是否可能被第三方拦截、复制或篡改。甲方同意就其使用任何可能包含任何保密性或法律义务的报告/结果（包括所有附件）与乙方达成明确协议。乙方对甲方在收到报告/结果后所做的任何更改不承担任何责任。

MISCELLANEOUS PROVISIONS

第十三条 其他规定

- 13.1 Any provision of this Agreement prohibited by or regarded as unlawful or unenforceable under any applicable law actually applied by any court of competent jurisdiction shall, to the extent required by such law, be severed by this Agreement and rendered ineffective so far as possible without modifying the remaining provisions of the agreement. Where however the provisions of any such applicable law may be waived, they are hereby waived by the parties hereto to the full extent permitted by such law to the end that this Agreement shall be valid and binding in all respects and shall not be subject to any such law.
- 13.2 根据有管辖权的法院所适用任何法律的规定, 当本协议中的任何条款被禁止或被视为无效或不可执行时, 则应当在此等法律所要求的范围内尽可能地不影响协议其他条款的效力。但若任何此等适用法律之规定可以被放弃或不适用于, 则双方应在此等适用法律所允许的范围内尽可能地放弃此等规定, 以使本协议成为有效的、有约束力的完整协议。
- 13.3 A certificate signed by any officer of UL VS as to the amount due from the Customer hereunder at the date of such certificate shall, in the absence of manifest error, be conclusive evidence of the amount due. 一份由乙方的任何管理从人签署的载明本协议中甲方在该等证书签发之日应付款项的证书, 若无明显错误, 应作为此等款项的确定。
- 13.4 Nothing in this Agreement shall be considered to form a partnership between the parties. No party shall represent that it acts as agent for another or has any capacity to bind another in any contractual or other arrangements. 本协议中任何条款均不得被视为在甲乙双方之间形成任何合伙关系。任何一方均不得声称可作为另一方的代理人或具有任何能力以另一方的名义或以另一方的名义签订任何合同或其他安排。
- 13.5 Save as herein otherwise provided any notice required to be given hereunder shall be sufficiently given if given in writing or by telegram or telex to the last known postal address or a text number of the addressee and every notice shall be deemed to have been received and given at the time when it is given of course of transmission it should have been delivered at the address or text number to which it was sent. 除非另有规定, 根据本协议需作出的任何通知, 若以书面形式或通过电话或电报或电传向最后所知的邮政地址或该地址的电传号码发出, 应被视为充分作出; 且在传达过程中, 当其应当已经送达至所发送的地址或电传号码时, 应当被视为已经被收到和作出。
- 13.6 This report of random inspection or testing shall be sufficient for their contractual responsibility for the quality/quantity of this delivery or not does it prejudice Customer's right to claim towards sellers/suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit.
- 13.7 本报告或证书并非卖方/供应方关于交付货物质量/数量的合同保证, 也不影响甲方与卖方/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/或隐藏的瑕疵的权利。