



中国认可
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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: C80131705
DATE: February 23, 2017

Attn: Kelly Xiong

Sample Description: Jumbo Lacing Beads (Set II) / Jumbo Lacing Beads (Set III) / 24-piece Color Block Set / 6-piece Mirror Block and Dry Erase Block Set / Mirror Tray / Touch and Guess Box / Tactile Training Shape Teaching Set (Tray Included) / Tactile Training Tactile Panel Set (40 pcs. Alphabets, numbers and shapes) / 38 Piece Translucent Numbers and Alphabets Set / 51 Piece Translucent Geometric Shapes Set

Quantity Submitted: 1 piece x 10 styles
Supplier: Carpenters Manufactory Limited
Buyer: Not provided
Style/Item No.: ME03980 / ME03997 / ME04000 / ME04017 / ME04086 / ME04055 / ME05342 / ME04031 / ME07308 / ME08602
P.O. No.: Not provided
Labeled Age Grading: 3+
Destination: Global
Country of Origin: China
Date(s) of samples received: December 22, 2016 (.p.m.) & January 19, 2017 & February 15, 2017

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

CONCLUSION: Please refer to page two(2)

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CONCLUSION:

USA:

ASTM F963-11 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}
ASTM F963-11 Clause 4.3.5.2 (2) (b) Elements Migration in Substrate	PASS
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 Requirement [Paint or Surface Coating]	PASS ^{#3}
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 Requirement [Substrate Materials]	PASS
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 (Cellulose Nitrate and Celluloid)	PASS
Flammability Requirements For Textile Fibres: SOR/2011-22	PASS
Canada Toys Regulations SOR/2011-17 Heavy Metal Content Requirements	PASS ^{#3}
Canada Consumer Products Containing Lead (Contact mouth) Regulation	PASS ^{#3}
Canada Phthalates Regulation SOR/2010-298 Phthalates Content Requirements	PASS ^{#2}

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}
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}
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	PASS

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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, 11, 12 and 13 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, 11, 12 and 13 in the report was referred from report C82071667 issued on November 28, 2016.

#3: As claimed by client, the sample 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 and 13 listed in the report is identical with the one in report C82071666. The test data of sample 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 and 13 in the report was referred from report C82071666 issued on November 28, 2016.

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

David Mo

Joy Jin

David Mo
Supervisor - Toys Department

Joy Jin
Laboratory Supervisor
Chemical Department

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

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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 F963-11

The following clauses are identified to be applicable:

Age grading for testing : Ages 3+
Samples Quantity : 10 style (s) x 1 piece(s)
1 piece - Balls; 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
4.9	Accessible Points	P
4.11	Nails And Fasteners	P
4.12	Plastic Film	P
4.34	Balls	P
5	Safety Labeling Requirements	P
6	Instructional Literature	P
7	Producer's Markings	P

Remark: P = Pass

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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 : 10 style (s) x 1 piece(s)
1 piece - Labeling requirements; prominence, placement, and conspicuousness; Misbranded toys and other articles intended for use by children [Second Submission Sample]

<u>TEST ITEMS</u>	<u>SHARP POINT</u> (1500.48)	<u>SHARP EDGE</u> (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
1500.121 Labeling requirements; prominence, placement, and conspicuousness		P
1500.19 Misbranded toys and other articles intended for use by children		P

Remark: P = Pass

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1.2 FLAMMABILITY TEST

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

Samples Quantity: 1 piece(s) x 10 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 10 style(s)
Requirement: Burning rate should not exceed 0.1 inch per second along the major axis.
Results: The sample was tested to be ignited but extinguished.

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TEST RESULTS

1.3 CHEMICAL TESTS:

1.3.1 SOLUBLE ELEMENT MIGRATION IN SURFACE COATING

Requirement: As per ASTM F963-11 Clause 4.3.5.1 (2) requirement, materials under test shall not exceed below limit.

Test method: Reference to ASTM F963-11 Clause 8.3, used acid extraction and analyzed by Inductively Coupled Argon Plasma Spectrometry.

Results:

Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 2	<6.0	<2.5	<6.0	<6.0	<6.0	6.0	<6.0	<6.0
Sample 3	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 4	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 5	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
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	7.5	<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	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0

Remark:

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

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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 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 21	<6.0	<2.5	27.5	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 22	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 23	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 24	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 25	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 26	<6.0	<2.5	7.5	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 27	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 28	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 29	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 30	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 31	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 33	<6.0	<2.5	6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 36	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 37	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 38	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 39	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 40	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 41	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 42	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 43	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 44	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 45	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 46	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 47	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 48	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0

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TEST RESULTS

Remark:

- All concentrations expressed in milligrams per kilogram
- "<" means "less than"
- For sample 31 and 45, the samples weight used was 0.0275 and 0.0696 gram per piece respectively.

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 :

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> 21.9	<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	<u>Sample 13</u> <10.0			

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

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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: C80131705
DATE: February 23, 2017

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	21.9	<10.0	<10.0	<10.0	<10.0
	<u>Sample 12</u>	<u>Sample 13</u>			
Total Lead	<10.0	<10.0			

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

1.3.5 TOTAL LEAD CONTENT TEST: COATING

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

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

Results:

	<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	21.9	<10.0	<10.0	<10.0	<10.0
	<u>Sample 12</u>	<u>Sample 13</u>			
Total Lead	<10.0	<10.0			

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

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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: C80131705
DATE: February 23, 2017

TEST RESULTS

1.3.6 TOTAL LEAD CONTENT TEST: SUBSTRATE

Requirement: As per ASTM F963-11 Clause 4.3.5.2 (2) (a) requirement, lead content in the materials under test shall not exceed of 100ppm.

Test method: CPSC-CH-E1001-8.3 Standard operating procedure for determining total Lead (Pb) in metal;
CPSC-CH-E1002-8.3 Standard operating procedure for determining total Lead (Pb) in non-metal

Results:

Total Lead	<u>Sample 14</u> <10.0	<u>Sample 16</u> <10.0	<u>Sample 21/22</u> <10.0	<u>Sample 23/24/25</u> <10.0
Total Lead	<u>Sample 26/27/28</u> <10.0	<u>Sample 29/30</u> <10.0	<u>Sample 31</u> <10.0	<u>Sample 32</u> <10.0
Total Lead	<u>Sample 34</u> 20.8	<u>Sample 35</u> 35.5	<u>Sample 36</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: C80131705
DATE: February 23, 2017

TEST RESULTS

1.3.7 TOTAL LEAD CONTENT TEST: SUBSTRATE

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

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

Results:

Total Lead	<u>Sample 14</u> <10.0	<u>Sample 16</u> <10.0	<u>Sample 21/22</u> <10.0	<u>Sample 23/24/25</u> <10.0
Total Lead	<u>Sample 26/27/28</u> <10.0	<u>Sample 29/30</u> <10.0	<u>Sample 31</u> <10.0	<u>Sample 32</u> <10.0
Total Lead	<u>Sample 34</u> 20.8	<u>Sample 35</u> 35.5	<u>Sample 36</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: C80131705
DATE: February 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 16	ND	ND	ND	ND	ND	ND
Sample 31	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: C80131705
DATE: February 23, 2017

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 : 10 style (s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4	Packaging <u>Mechanical Hazard</u>	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

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: C80131705
DATE: February 23, 2017

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:

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	21.9	**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
Sample 13	<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: C80131705
DATE: February 23, 2017

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> <10.0	<u>Sample 2</u> <10.0	<u>Sample 3</u> <10.0	<u>Sample 4</u> <10.0	<u>Sample 5</u> <10.0
Total Lead	<u>Sample 6</u> <10.0	<u>Sample 7</u> 21.9	<u>Sample 8</u> <10.0	<u>Sample 9</u> <10.0	<u>Sample 10</u> <10.0
Total Lead	<u>Sample 11</u> <10.0	<u>Sample 12</u> <10.0	<u>Sample 13</u> <10.0	<u>Sample 14</u> <10.0	<u>Sample 15</u> <10.0
Total Lead	<u>Sample 16</u> <10.0	<u>Sample 20</u> <10.0	<u>Sample 21/22</u> <10.0	<u>Sample 23/24/25</u> <10.0	
Total Lead	<u>Sample 26/27/28</u> <10.0	<u>Sample 29/30</u> <10.0	<u>Sample 31</u> <10.0	<u>Sample 32</u> <10.0	
Total Lead	<u>Sample 34</u> 20.8	<u>Sample 35</u> 35.5	<u>Sample 36</u> <10.0	<u>Sample 39</u> <10.0	
Total Lead	<u>Sample 40/41/42</u> <10.0	<u>Sample 43/48/37</u> <10.0	<u>Sample 44/38</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: C80131705
DATE: February 23, 2017

TEST RESULTS

2.3.3 CHEMICAL TESTS:

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

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

Method : C-34
Results :

Sample ID	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 16	ND	ND	ND	ND	ND	ND
Sample 31	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 REPORT

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

REPORT NO: C80131705
DATE: February 23, 2017

TEST RESULTS

3. AUSTRALIA

3.1 MECHANICAL AND PHYSICAL TEST

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

The following clauses are identified to be applicable:

Age grading for testing : Ages 3+
Samples Quantity : 10 style (s) x 1 piece(s)
1 piece - Shape, size and strength of certain toys ; Safety labelling 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
4.5	Shape, size and strength of certain toys	P
4.6	Edges	P
4.7	Points	P
4.10	Plastic film or plastic bags in packaging and in toys	P
ANNEX B	Safety labelling guidelines and manufacturer's markings	P

Remark: P = Pass

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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: C80131705
DATE: February 23, 2017

TEST RESULTS

3.2 FLAMMABILITY TEST

AS PER AUSTRALIAN / NEW ZEALAND STANDARD AS/NZS ISO 8124-2:2009 FLAMMABILITY TEST

The following clauses are identified to be applicable:

Age grading for testing : Ages 3+
Samples Quantity : 10 style (s) x 1 piece(s)

Clause(s)	Test Items	Assessment
4.1*	General	P

Remark: P = Pass

* = Test result on surface flash flammability test on pile fabric was not included. Please refer to the next test item.

Section 4.1 General Requirement (Surface flash)

Key to sample(s)

Sample 1 = Brown plush

Requirement: Pile surface shall not produce surface flash on the approach of a flame.

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

***** Page 20 of 43 *****

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REPORT NO: C80131705
DATE: February 23, 2017

TEST RESULTS

3.3 CHEMICAL TESTS:

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

Results:

Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 2	<6.0	<2.5	<6.0	<6.0	<6.0	6.0	<6.0	<6.0
Sample 3	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 4	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 5	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 6	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 7	<6.0	<2.5	<6.0	<6.0	<6.0	7.5	<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	<6.0	<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 21	<6.0	<2.5	27.5	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 22	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 23	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 24	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 25	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 26	<6.0	<2.5	7.5	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 27	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 28	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 29	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 30	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 31	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 33	<6.0	<2.5	6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 36	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 37	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 38	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 39	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 40	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0

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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: C80131705
DATE: February 23, 2017

TEST RESULTS

Results:

Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 41	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 42	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 43	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 44	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 45	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 46	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 47	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 48	<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.
2. For sample 31 and 45, the samples weight used was 0.0275 and 0.0696 gram per piece respectively.

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TEST REPORT

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REPORT NO: C80131705
DATE: February 23, 2017

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:

Di (2-Ethylhexyl) Phthalate (DEHP)	<u>Limit</u> 1 %	<u>Sample 2</u> ND	<u>Sample 3</u> ND	<u>Sample 4</u> ND	<u>Sample 5</u> ND
Di (2-Ethylhexyl) Phthalate (DEHP)	<u>Limit</u> 1 %	<u>Sample 6</u> ND	<u>Sample 7</u> ND	<u>Sample 8</u> ND	<u>Sample 9</u> ND
Di (2-Ethylhexyl) Phthalate (DEHP)	<u>Limit</u> 1 %	<u>Sample 10</u> ND	<u>Sample 11</u> ND	<u>Sample 12</u> ND	<u>Sample 13</u> ND
Di (2-Ethylhexyl) Phthalate (DEHP)	<u>Limit</u> 1 %	<u>Sample 16</u> ND	<u>Sample 21/22</u> ND	<u>Sample 23/24/25</u> ND	
Di (2-Ethylhexyl) Phthalate (DEHP)	<u>Limit</u> 1 %	<u>Sample 26/27/28</u> ND	<u>Sample 29/30</u> 0.020%		

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

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REPORT NO: C80131705
DATE: February 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 : 10 style (s) x 1 piece(s)
1 piece - Warnings, markings and instructions for use; General;
Warning on toys not intended for children under 36 months
[Second Submission Sample]

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material Cleanliness	P
4.2	Assembly	P
4.4	Toy bags	P
4.7	Edges	P
4.8	Points And Metallic Wires	P
4.22	Small balls	P
7	Warnings, markings and instructions for use	P
7.1	General	P
7.2	Warning on toys not 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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REPORT NO: C80131705
DATE: February 23, 2017

TEST RESULTS

4.2 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 : 10 style (s) x 1 piece(s)

Clause(s)	Test Items	Assessment
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 produce 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

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				
Lead	160	6.0	<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	70.0	<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 (Expressed as TBT)	12	--	--	--	--	--
Zinc	46,000	5850.0	6750.0	5300.0	6650.0	6500.0

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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				
Lead	160	7.5	<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	65.0	<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 (Expressed as TBT)	12	--	--	--	--	--
Zinc	46,000	6400.0	6300.0	6700.0	6100.0	5550.0

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REPORT NO: C80131705
DATE: February 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	<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				
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	660.0
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	8.5	<5.0	20.5
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin ³ (Expressed as TBT)	12	--	--	--	--	--
Zinc	46,000	5800.0	5250.0	<50	<50	<50

***** Page 28 of 43 *****

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



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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: C80131705
DATE: February 23, 2017

TEST RESULTS

Results:

Elements ¹	Limits (Scraped off material)	Sample 17	Sample 18	Sample 19	Sample 21	Sample 22
Antimony	560	5.5	<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	27.5	<5.0
Cadmium	17	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium III ²	460	0.445	0.225	0.210	1.480	2.610
Chromium VI ²	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Lead	160	<5.0	<5.0	<5.0	<5.0	<5.0
Mercury	94	<5.0	<5.0	<5.0	<5.0	<5.0
Selenium	460	<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	70,000	<50	<50	<50	<50	<50
Boron	15,000	<50	<50	<50	<50	<50
Cobalt	130	<5.0	<5.0	<5.0	<5.0	<5.0
Copper	7700	<50	<50	<50	<50	<50
Manganese	15,000	<5.0	<5.0	<5.0	<5.0	<5.0
Nickel	930	<5.0	<5.0	<5.0	<5.0	<5.0
Strontium	56,000	<5.0	<5.0	<5.0	<5.0	<5.0
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin ³ (Expressed as TBT)	12	--	--	--	--	--
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: C80131705
DATE: February 23, 2017

TEST RESULTS

Results:

Elements ¹	Limits (Scraped off material)	Sample 23	Sample 24	Sample 25	Sample 26	Sample 27
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	7.5	<5.0
Cadmium	17	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium III ²	460	0.365	0.225	<0.2	<0.2	<0.2
Chromium VI ²	0.2	<0.2	<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	<5.0	<5.0	<5.0	<5.0
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin ³ (Expressed as TBT)	12	--	--	--	--	--
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: C80131705
DATE: February 23, 2017

TEST RESULTS

Results:

Elements ¹	Limits (Scraped off material)	Sample 28	Sample 29	Sample 30	Sample 31	Sample 33
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	6.0
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				
Lead	160	<5.0	<5.0	<5.0	<5.0	<5.0
Mercury	94	<5.0	<5.0	<5.0	<5.0	<5.0
Selenium	460	<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	70,000	<50	<50	<50	<50	<50
Boron	15,000	<50	<50	<50	<50	<50
Cobalt	130	<5.0	<5.0	<5.0	<5.0	<5.0
Copper	7700	<50	<50	<50	<50	<50
Manganese	15,000	<5.0	<5.0	<5.0	<5.0	<5.0
Nickel	930	<5.0	<5.0	<5.0	<5.0	<5.0
Strontium	56,000	<5.0	<5.0	<5.0	<5.0	7.0
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin ³ (Expressed as TBT)	12	--	--	--	--	--
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: C80131705
DATE: February 23, 2017

TEST RESULTS

Results:

Elements ¹	Limits (Scraped off material)	Sample 36	Sample 37	Sample 38	Sample 39	Sample 40
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	24.585	<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	<5.0	<5.0	<5.0	<5.0
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin ³ (Expressed as TBT)	12	--	--	--	--	--
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: C80131705
DATE: February 23, 2017

TEST RESULTS

Results:

Elements ¹	Limits (Scraped off material)	Sample 41	Sample 42	Sample 43	Sample 44	Sample 45
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	0.215	<0.2	<0.2	<0.2	<0.2
Chromium VI ²	0.2	<0.2	<0.2 ^A	<0.2 ^A	<0.2 ^A	<0.2 ^A
Lead	160	<5.0	<5.0	<5.0	<5.0	<5.0
Mercury	94	<5.0	<5.0	<5.0	<5.0	<5.0
Selenium	460	<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	70,000	<50	<50	<50	<50	<50
Boron	15,000	<50	<50	<50	<50	<50
Cobalt	130	<5.0	<5.0	<5.0	<5.0	<5.0
Copper	7700	<50	<50	<50	<50	<50
Manganese	15,000	<5.0	<5.0	<5.0	<5.0	<5.0
Nickel	930	<5.0	<5.0	<5.0	<5.0	<5.0
Strontium	56,000	<5.0	<5.0	<5.0	<5.0	<5.0
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin ³ (Expressed as TBT)	12	--	--	--	--	--
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: C80131705
DATE: February 23, 2017

TEST RESULTS

Results:

Elements ¹	Limits (Scraped off material)	Sample 46	Sample 47	Sample 48
Antimony	560	<5.0	<5.0	<5.0
Arsenic	47	<2.5	<2.5	<2.5
Barium	18750	<5.0	<5.0	<5.0
Cadmium	17	<5.0	<5.0	<5.0
Chromium III ²	460	<0.2	0.225	<0.2
Chromium VI ²	0.2	<0.2 ^Δ	<0.2	<0.2 ^Δ
Lead	160	<5.0	<5.0	<5.0
Mercury	94	<5.0	<5.0	<5.0
Selenium	460	<5.0	<5.0	<5.0
Aluminum	70,000	<50	<50	<50
Boron	15,000	<50	<50	<50
Cobalt	130	<5.0	<5.0	<5.0
Copper	7700	<50	<50	<50
Manganese	15,000	<5.0	<5.0	<5.0
Nickel	930	<5.0	<5.0	<5.0
Strontium	56,000	<5.0	<5.0	<5.0
Tin	180,000	<4.0	<4.0	<4.0
Organic Tin ³ (Expressed as TBT)	12	--	--	--
Zinc	46,000	<50	<50	<50

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: C80131705
DATE: February 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 17, 18, 19, 31 and 45, the samples weight used was 0.0697, 0.0659, 0.0585, 0.0275 and 0.0696 gram per piece respectively.

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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: C80131705
DATE: February 23, 2017

TEST RESULTS

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
Sample 9	<5.0
Sample 10	<5.0
Sample 11	<5.0
Sample 12	<5.0
Sample 13	<5.0
Sample 16	<5.0
Sample 21/22	<5.0
Sample 23/24/25	<5.0
Sample 26/27/28	<5.0
Sample 29/30	<5.0
Sample 31	<5.0

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

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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: C80131705
DATE: February 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 16	ND	ND	ND	ND	ND	ND
Sample 21/22	ND	ND	ND	ND	ND	ND
Sample 23/24/25	ND	ND	ND	ND	ND	ND
Sample 26/27/28	ND	ND	ND	ND	ND	ND
Sample 29/30	0.020%	ND	0.020%	ND	ND	ND
Sample 31	ND	ND	ND	ND	ND	ND

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

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

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TEST REPORT

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

REPORT NO: C80131705
DATE: February 23, 2017

TEST RESULTS

4.3.4 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'-DICHLOOROBENZIDINE	22	4-AMINOAZOBENZENE
11	3,3'-DIMETHOXYBENZIDINE		
12	3,3'-DIMETHYLBENZIDINE		

<u>SAMPLE ID</u>	<u>TEST METHOD</u>	<u>AMINE DETECTED</u>	<u>RESULT</u>
Sample 1	EN 14362-1:2012	NOT DETECTED	PASS
Sample 20	EN 14362-1:2012	NOT DETECTED	PASS
Sample 36	EN 14362-1:2012	NOT DETECTED	PASS
Sample 40/41/42	EN 14362-1:2012	NOT DETECTED	PASS
Sample 43/48/37	EN 14362-1:2012	NOT DETECTED	PASS

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 REPORT

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

REPORT NO: C80131705
DATE: February 23, 2017

TEST RESULTS

INTERPRETATION OF TEST RESULTS:

1. 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 REPORT

CLIENT: Carpenters Manufactory Limited
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REPORT NO: C80131705
DATE: February 23, 2017

TEST RESULTS

Key to sample(s):

- Sample 1 = Dark green cord with blue fabric and brown plush (storage bag of ME03997& ME03980)
- Sample 2 = Bright red coating (A1Y)(logo of all styles except ME04086, blocks of ME04000& ME03980& ME03997)
- Sample 3 = Orange coating (A2Y)(blocks of ME04000& ME03980)
- Sample 4 = Light yellow coating (A3)(blocks of ME04000& ME03980& ME03997)
- Sample 5 = Light green coating (A4Y)(blocks of ME04000)
- Sample 6 = Dark green coating (A5Y)(logo of all styles except ME04086, blocks of ME04000& ME03980& ME03997)
- Sample 7 = Dark blue coating (A7Y)(logo of all styles except ME04086, blocks of ME04000& ME03980& ME03997, pattern on board of ME05342)
- Sample 8 = Light blue coating (A8Y)(blocks of ME03980)
- Sample 9 = Purple coating (A11Y)(blocks of ME03980)
- Sample 10 = Pink coating (A13Y)(blocks of ME03980)
- Sample 11 = White coating (A16Y)(blocks of ME04000)
- Sample 12 = Black coating (A19Y)(blocks of ME04000)
- Sample 13 = Clear lacquer (A21Y)(box of all styles except ME04086, blocks of all styles except ME07308& ME08602& ME04055)
- Sample 14 = Beige plywood excluding coatings (box of ME03997& ME03980& ME07308& ME08602& ME04055, bottom on box of ME05342& ME04000, board of ME05342)
- Sample 15 = Brown wood excluding coatings (blocks of all styles except ME04055)
- Sample 16 = White paper card with transparent plastic film and inaccessible multicolor coatings (card of ME03980& ME03997)
- Sample 17 = Green thread (sewing thread on bag of ME04086)
- Sample 18 = White thread (sewing thread on bag of ME04086& ME03997& ME03980)
- Sample 19 = Bright green thread (thread on zipper teeth of bag of ME04086)
- Sample 20 = Beige fabric with red/green/blue embroidery thread (cover on bag of ME04086)
- Sample 21 = White plastic (blocks of ME04017)
- Sample 22 = Transparent plastic with inaccessible silvery coating (blocks of ME04017& ME04086)
- Sample 23 = Clear plastic (end on cord of ME03980& ME03997)
- Sample 24 = Clear yellow plastic (blocks of ME07308& ME08602)
- Sample 25 = Clear orange plastic (blocks of ME07308)
- Sample 26 = Clear blue plastic (blocks of ME07308& ME08602)
- Sample 27 = Clear green plastic (blocks of ME07308)

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TEST RESULTS

- Sample 28 = Clear purple plastic (blocks of ME07308)
- Sample 29 = Clear red plastic (blocks of ME07308& ME08602)
- Sample 30 = Green plastic (zipper teeth on bag of ME04086)
- Sample 31 = Transparent dry glue (joint on board& rod of ME05342)
- Sample 32 = Silvery metal (screw of box of ME03980& ME03997& ME08602& ME07308& ME04031& ME04055)
- Sample 33 = Beige fabric (cover on bag of ME04086)
- Sample 34 = Silvery metal (zipper head on bag of ME04086)
- Sample 35 = Silvery metal (zipper puller on bag of ME04086)
- Sample 36 = Beige fabric with red/green/blue printings (storage bag of ME03997& ME03980)
- Sample 37 = Green fabric (body& handle on bag of ME04086)
- Sample 38 = White non-woven (binding on bag of ME04086)
- Sample 39 = White cord (string on board& rod of ME05342)
- Sample 40 = Blue cord (string of ME03997& ME03980)
- Sample 41 = Yellow cord (string of ME03997& ME03980)
- Sample 42 = Green cord (string of ME03997& ME03980)
- Sample 43 = Red cord (string of ME03997& ME03980)
- Sample 44 = Dark green cord (storage bag of ME03997& ME03980)
- Sample 45 = Green embroidery thread (logo on bag of ME04086)
- Sample 46 = Red embroidery thread (logo on bag of ME04086)
- Sample 47 = Blue embroidery thread (logo on bag of ME04086)
- Sample 48 = Bright green fabric (zipper band on bag of ME04086)

Date(s) of test(s) conducted: December 27, 2016 to January 24, 2017
February 15, 2017 to February 15, 2017 [Second Submission Sample]

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TEST REPORT

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REPORT NO: C80131705
DATE: February 23, 2017

Product Photo:



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