



TEST REPORT

CLIENT: Carpenters Manufactory Limited
 ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
 REPORT NO: C80941576
 DATE: September 14, 2015

Attn: Kelly Xiong

Sample Description: Wooden Opposites Learning Puzzles /
 Wooden Sequence Puzzles /
 Wooden Numbers Learning Puzzles /
 Wooden Colors Learning Puzzles /
 Wooden Alphabet Learning Puzzles/
 Size Sequencing Puzzles

Quantity Submitted: Total 6 styles, 2pieces for each
 Supplier: Carpenters Manufactory Limited
 Buyer: Not provided
 Style/Item No.: MK05991/ MK06028/ MK05977/ MK06004/ MK05984/MK06165
 P.O. No.: Not provided
 Labeled Age Grading: Ages 3 to 6 years
 Destination: Global
 Country of Origin: China
 Date(s) of samples received: May 22, 2015 (p.m.) & August 27, 2015 (a.m.)

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

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



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CONCLUSION:

USA:

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

CANADA:

Canada Toys Regulations SOR/2011-17 Physical and Mechanical Requirements	PASS ^{#3}
Canada Toys Regulations SOR/2011-17 Flammability Requirements (Cellulose Nitrate and Celluloid)	PASS ^{#3}
Canada Toys Regulations SOR/2011-17 Heavy Metal Content Requirements	PASS
Canada Consumer Products Containing Lead (Contact mouth) Regulation	NOT APPLICABLE ^{#1}
Canada Phthalates Regulation SOR/2010-298 Phthalates Content Requirements	PASS ^{#3}

AU:

AS/NZS ISO 8124.1:2013 Physical & Mechanical Requirements	PASS ^{#3}
AS/NZS ISO 8124.2:2009 Flammability Requirements	PASS ^{#3}
AS/NZS ISO 8124.3:2012 Migration of Certain Elements	PASS ^{#2,3}
DEHP requirement per Australia Government	NOT APPLICABLE ^{#1}

EU:

EN 71-1:2014 Mechanical & Physical Properties	PASS ^{#3}
EN 71-2:2011 + A1:2014 Flammability	PASS ^{#3}
EN 71-3:2013+A1:2014 Migration of Certain Elements	PASS ^{#2,3}
Total Cadmium Content and European Reach Regulation Annex XVII	PASS ^{#3}
Total Phthalate Content European Reach Regulation Annex XVII	PASS ³
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 1 listed in the report is identical with the one in report C80181516. The test data of sample 1 in the report was referred from report C80181516 issued on March 31, 2015.
- #3 As per client's request, the test results refer to the ones in previous report C80561523 issued on June 2, 2015.

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

Benson Ye
 Assistant Laboratory Manager –
 Toys Department

Ms. Carol Ke
 Laboratory manager-
 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 to 6 years (MK05991,MK06028,MK05977,MK06004,MK06165)
 Samples Quantity : 5 style (s) x 1 piece(s)

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

Remark: P = Pass

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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 to 6 years (MK05984)
 Samples Quantity : 1 style (s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material(visual check on cleanness)	P
4.7	Accessible Edges	P
4.9	Accessible Points	P
4.12	Plastic Film	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 to 6 years
 Samples Quantity : 6 style (s) x 1 piece(s)

	<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

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 6 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 6 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 3	<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"

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 1	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 2	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 4	<6.0	<2.5	6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 6	<6.0	<2.5	6.5	<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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1.3.3 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 Sample 3
 <10.0

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

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

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

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

Results:

Total Lead Sample 3
 <10.0

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

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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 3</u>
Total Lead	<10.0

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

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:

	<u>Sample 1</u>	<u>Sample 2</u>	<u>Sample 4</u>	<u>Sample 6</u>
Total Lead	<10.0	<10.0	<10.0	<10.0

All concentrations expressed in milligrams per kilogram
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1.3.7 TOTAL LEAD CONTENT TEST: SUBSTRATE

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

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

Results:

	<u>Sample 1</u>	<u>Sample 2</u>	<u>Sample 4</u>	<u>Sample 6</u>
Total Lead	<10.0	<10.0	<10.0	<10.0

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

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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

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



TEST REPORT

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

REPORT NO: C80941576
 DATE: September 14, 2015

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 to 6 years (MK05991,MK06028,MK05977,MK06004,MK06165)
 Samples Quantity : 5 style (s) x 1 piece(s)

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

Remark: P = Pass

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



TEST REPORT

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

REPORT NO: C80941576
DATE: September 14, 2015

TEST RESULTS

AS PER CANADA TOYS REGULATIONS, SOR/2011-17

The following clauses are identified to be applicable:
Age grading for testing : Ages 3 to 6 years (MK05984)
Samples Quantity : 1 style (s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
3	General -- English and French bilingual statement	P
4	Packaging <u>Mechanical hazard</u>	P
9	Ends	P
11	Exposed Wooden Surfaces, Edges And Corners	P

Remark: P = Pass

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



TEST REPORT

CLIENT: Carpenters Manufactory Limited
 ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
 REPORT NO: C80941576
 DATE: September 14, 2015

TEST RESULTS

2.2 FLAMMABILITY TEST

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

Requirement: Celluloid (cellulose nitrate) and materials with the same behaviour in fire (except when used in varnish or paint) shall not be used in the manufacture of toys.

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

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
 ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
 REPORT NO: C80941576
 DATE: September 14, 2015

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



TEST REPORT

CLIENT: Carpenters Manufactory Limited
 ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
 REPORT NO: C80941576
 DATE: September 14, 2015

TEST RESULTS

2.3.2 CHEMICAL TESTS:

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

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

Method : C-34
 Results :

Sample ID	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

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



TEST REPORT

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

REPORT NO: C80941576
 DATE: September 14, 2015

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 to 6 years (MK05991,MK06028,MK05977,MK06004,MK06165)
 Samples Quantity : 5 style (s) x 1 piece(s)

<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
ANNEX B	Safety labelling guidelines and manufacturer's markings	P

Remark: P = Pass

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



TEST REPORT

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

REPORT NO: C80941576
 DATE: September 14, 2015

TEST RESULTS

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 to 6 years (MK05984)
 Samples Quantity : 1 style (s) x 1 piece(s)

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



TEST REPORT

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

REPORT NO: C80941576
 DATE: September 14, 2015

TEST RESULTS

3.2 FLAMMABILITY TEST

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

Requirement: Celluloid (cellulose nitrate) and materials with the same behaviour in fire (except when used in varnish or paint) shall not be used in the manufacture of toys.

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

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
 ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
 REPORT NO: C80941576
 DATE: September 14, 2015

TEST RESULTS

3.3 CHEMICAL TESTS:

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

Results:

Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 1	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 2	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 5	<6.0	<2.5	7.5	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 6	<6.0	<2.5	6.5	<6.0	<6.0	<6.0	<6.0	<6.0

Remark:

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

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REPORT NO: C80941576
 DATE: September 14, 2015

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 to 6 years (MK05991,MK06028,MK05977,MK06004,MK06165)
 Samples Quantity : 5 style (s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material Cleanliness	P
4.7	Edges	P
4.8	Points and Metallic Wires	P

Remark: P = Pass

Name and address of manufacturer or his authorized representative or importer into the community should be affixed on the toy and its packaging.

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



TEST REPORT

CLIENT: Carpenters Manufactory Limited
 ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
 REPORT NO: C80941576
 DATE: September 14, 2015

TEST RESULTS

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 to 6 years (MK05984)
 Samples Quantity : 1 style (s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material Cleanliness	P
4.7	Edges	P
4.8	Points and Metallic Wires	P
6	Packaging	P

Remark: P = Pass
 Name and address of manufacturer or his authorized representative or importer into the community should be affixed on the toy and its packaging.

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

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 ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
 REPORT NO: C80941576
 DATE: September 14, 2015

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: C80941576
 DATE: September 14, 2015

TEST RESULTS

4.3 CHEMICAL TESTS:

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

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

Results:

Elements ¹	Limits (Scraped off material)	Sample 1	Sample 2	Sample 5	Sample 6
Antimony	560	<5.0	<5.0	<5.0	<5.0
Arsenic	47	<2.5	<2.5	<2.5	<2.5
Barium	18750	<5.0	<5.0	7.5	6.5
Cadmium	17	<5.0	<5.0	<5.0	<5.0
Chromium III ²	460	0.845	<0.2	<0.2	<0.2
Chromium VI ²	0.2	<0.2	<0.2 ^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	155.0	<50	<50	<50
Boron	15,000	<50	<50	<50	<50
Cobalt	130	<5.0	<5.0	<5.0	<5.0
Copper	7700	<50	<50	<50	<50
Manganese	15,000	6.0	<5.0	5.0	8.0
Nickel	930	<5.0	<5.0	<5.0	<5.0
Strontium	56,000	7.5	34.5	100.5	7.5
Tin	180,000	<4.0	<4.0	<4.0	<4.0
Organic Tin ³ (Expressed as TBT)	12	--	--	--	--
Zinc	46,000	65.0	<50	<50	<50

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

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



TEST REPORT

CLIENT: Carpenters Manufactory Limited
 ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
 REPORT NO: C80941576
 DATE: September 14, 2015

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

4.3.2 TOTAL CADMIUM CONTENT AND EUROPEAN REACH REGULATION ANNEX XVII: WET-ASHING DIGESTION AND DETECTED WITH AAS/ICP

Results:

Element	Total Cadmium
Limit	< 100
Sample 2	<5.0
Sample 3	<5.0
Sample 4	<5.0

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

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



TEST REPORT

CLIENT: Carpenters Manufactory Limited
 ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
 REPORT NO: C80941576
 DATE: September 14, 2015

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

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: C80941576
 DATE: September 14, 2015

TEST RESULTS

Key to sample(s):

- Sample 1 = Beige Plywood (Puzzles Of MK05991,MK06028,MK05977,MK06004,MK06165)
- Sample 2 = White Paper Label With Transparent Plastic Film And Inaccessible Multicolor Coatings (sticker on puzzles of MK05991,MK06028,MK05977,MK06004,MK06165)
- Sample 3 = Multicolor Coatings On Paper Label (Sticker On Puzzles Of MK05984)
- Sample 4 = White Paper Label Excluding Coatings (Sticker On Puzzles Of MK05984)
- Sample 5 = White Paper Label With Multicolor Coatings (Sticker On Puzzles Of MK05984)
- Sample 6 = Beige Plywood (Puzzles Of MK05984)

Date(s) of test(s) conducted: May 25, 2015 to September 7, 2015

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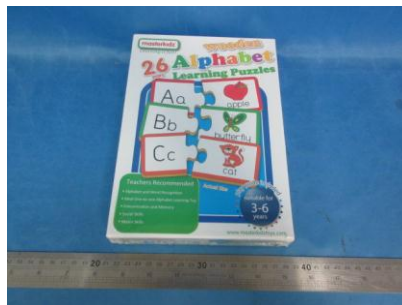
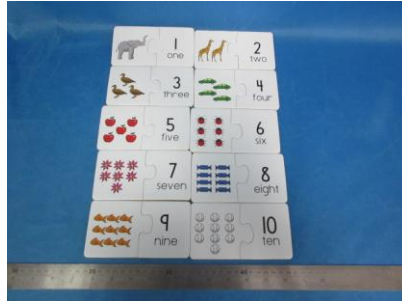


TEST REPORT

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

REPORT NO: C80941576
DATE: September 14, 2015

Product Photo:



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

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