

GWSTC Test Report

Date: 2014-01-09

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NO: GP158829

APPLICANT: (Code: CML001)

Carpenters Manufactory Limited
Huang Jin Ji Industrial Zone
Shang Jie Village, Qi Shi Town
Dongguan City, Guangdong Province
China

Attn: Candy

CONCLUSION:

ASTM F 963-11: physical and mechanical test

The submitted sample complied with the requirement.

ASTM F 963-11: flammability test

The submitted sample complied with the requirement.

ASTM F 963-11: heavy elements test

The submitted sample complied with the requirement.

U.S. CPSC 16 CFR Part 1303 for total lead content

The submitted sample complied with the requirement.

U.S. Consumer Product Safety Improvement Act of 2008 (Public law 110-314) for total lead content

The submitted sample complied with the requirement.

U.S. Consumer Product Safety Improvement Act of 2008 (Public law 110-314) for phthalates content

The submitted sample complied with the requirement.


California proposition 65 for DnHP content

The submitted sample complied with the requirement.

California proposition 65 for total lead content

The submitted sample complied with the requirement.

Approved Signatory:


Feng Jun Guo
Lab Manager
Ellen, Xiao Wan Li
General Manager

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DESCRIPTION OF SAMPLE(S):

Two (2) styles, four (4) pieces of submitted sample (photo attached at Appendix A) said to be:
KITCHEN CENTER
ITEM NO.: RP2A02 / RP2A03
COUNTRY OF ORIGIN: CHINA
COUNTRY OF DESTINATION: EUROPE, USA
SUPPLIER/MANUFACTURER: CARPENTERS MANUFACTORY LIMITED

INVESTIGATION REQUESTED:

1. ASTM Standard Consumer Safety Specification on Toy Safety F 963-11
 - physical and mechanical test
 - flammability test
 - heavy elements test
2. Total lead content in accordance with U.S. CPSC 16 CFR Part 1303.
3. Total lead content in accordance with U.S. Consumer Product Safety Improvement Act of 2008 (Public law 110-314)
 - Sec.101. children's product containing lead; lead paint rule.
4. Phthalates content in accordance with U.S. Consumer Product Safety Improvement Act of 2008 (Public law 110-314)
 - Sec.108. Prohibition on sale of certain products containing specified phthalates.
5. DnHP content in accordance with California proposition 65.
6. Total lead content in accordance with California proposition 65.

DATE OF SAMPLE(S) RECEIVED:

2013-11-27, 2013-12-09

DATE TESTED:

ASTM F 963-11

- physical and mechanical test: 2013-12-03, 2013-12-16
- flammability test: 2013-12-03
- heavy elements test: 2013-11-27 to 2014-01-08

U.S. CPSC 16 CFR Part 1303/U.S. Consumer Product Safety Improvement Act of 2008 (Public law 110-314)/California proposition 65

2013-11-27 to 2014-01-08

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AGE GRADING:

The sample was appropriately age graded with the marking of ‘Small Parts. Not for children under 3 years’. The applicant requested also it to be tested according to the age grade of 3 Years and up.

AGE GRADING FOR TESTING:

3 years and up

TEST RESULTS:

1. ASTM F 963-11

1.1 Mechanical and physical hazards

Ref.: ASTM F 963-11

Applicable requirements before and after use and abuse testing:

Applicable

<u>Section</u>	<u>Description</u>	<u>Result</u>
4	<u>Safety requirements</u>	----
4.1	Material Quality	Pass* ¹
4.5	Sound – Producing Toy	Pass
4.6	Small Objects	Pass
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
4.11	Nails and Fasteners	Pass
4.13	Folding Mechanisms and Hinges	Pass
4.38	Magnets	Pass
5	<u>Safety Labeling Requirements</u>	----
5.1	Federal Government Requirements	Pass
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	Pass
5.8	Toys Intended to be Assembled By an Adult	Pass
5.11	Small Objects, Small Balls, Marbles and Balloons (all packages)	Pass
6	<u>Instructional Literature</u>	----
6.1	Definition and Description	Pass
6.4	Toys Intended to be Assembled By an Adult	Pass
7	<u>Producer’s Markings</u>	----
7.1	Name and Address of the Producer/Distributor	Pass

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Use and abuse testing:

Applicable

<u>Section</u>	<u>Description</u>
8.5	Normal Use Testing
8.6	Abuse Testing
8.7	Impact Test
8.8	Torque Test for Removal of Components
8.9	Tension Test for Removal of Components
8.10	Compression Test
8.19	Tests for Toys which Produce Noise
8.24	Magnetic Test Methods

*1 = The applicant confirmed the toy was made of new material.

1.2 Flammability of materials other than textiles

Ref.: ASTM F 963-11 Section 4.2

<u>Sample</u>	<u>The burn rate</u>	<u>Result</u>
KITCHEN CENTER	Did not ignite	Pass

Note: In accordance with the FHSA, the burn rate should not be greater than 0.1 in. per second.

1.3 Heavy elements analysis

1.3.1 ASTM F 963-11 Section 4.3.5 - total lead analysis

Method used: ASTM F 963-11 Section 8.3.1

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Paint materials (on dried film) (see Remark 1)

- (a) Bright red (A1Y)
- (b) Orange (A2Y)
- (c) Dark brown (A10Y)

Coating materials

- (d) Kitchen center: red/white/silver grey baking paint
- (e) Kitchen center: blue green/white/silver gray baking paint
- (f) Kitchen center: yellow wood grain on fibreboard

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
(a)~(f)	<5mg/kg	90mg/kg

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Plastic materials

- (g) Kitchen center: flesh plastic (see Remark 6)
- (h) Kitchen center: transparent plastic part
- (i) Kitchen center: silver gray/deep red/blue green (see Remark 7)
- (j) Kitchen center: translucent door holder

Wooden materials (see Remark 2)

- (k) Kitchen center: flesh wood
- (l) Kitchen center: light flesh plywood

Metallic material (non-small part) (see Remark 6)

- (m) Kitchen center: silver metal screw

Tested component (see Remark 6)

- (n) Kitchen center: deep flesh fibreboard

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
(g)~(n)	<10mg/kg	100mg/kg

1.3.2 ASTM F 963-11 Section 4.3.5 - soluble elements analysis

Method used: ASTM F 963-11 Section 8.3.2

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Coating materials

- (a) Kitchen center: bright red (A1Y) (see Remark 2)
- (b) Kitchen center: orange (A2Y) (see Remark 2)
- (c) Kitchen center: dark brown (A10Y) (see Remark 3)
- (d) Kitchen center: red/white/silver grey baking paint (see Remark 5)
- (e) Kitchen center: blue green/white/silver gray baking paint (see Remark 5)
- (f) Kitchen center: yellow wood grain on fibreboard (see Remark 5)

Plastic materials

- (g) Kitchen center: flesh plastic (see Remark 6)
- (h) Kitchen center: transparent plastic part (see Remark 4)
- (i) Kitchen center: silver gray (see Remark 5)
- (j) Kitchen center: deep red (see Remark 5)
- (k) Kitchen center: blue green (see Remark 5)
- (l) Kitchen center: translucent door holder (see Remark 5)

Wooden materials (see Remark 2)

- (m) Kitchen center: flesh wood
- (n) Kitchen center: light flesh plywood

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Tested component (see Remark 6)

(o) Kitchen center: deep flesh fibreboard

	<u>(a)~(c)</u>	<u>(d)</u>	<u>(e)~(l)</u>	<u>Limit</u>
Soluble antimony	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble arsenic	<2mg/kg	<2mg/kg	<2mg/kg	25mg/kg
Soluble barium	<10mg/kg	12mg/kg	<10mg/kg	1000mg/kg
Soluble cadmium	<7mg/kg	<7mg/kg	<7mg/kg	75mg/kg
Soluble chromium	<5mg/kg	<5mg/kg	<5mg/kg	60mg/kg
Soluble lead	<5mg/kg	<5mg/kg	<5mg/kg	90mg/kg
Soluble mercury	<5mg/kg	<5mg/kg	<5mg/kg	60mg/kg
Soluble selenium	<10mg/kg	<10mg/kg	<10mg/kg	500mg/kg

	<u>(m)</u>	<u>(n)~(o)</u>	<u>Limit</u>
Soluble antimony	<2mg/kg	<2mg/kg	60mg/kg
Soluble arsenic	<2mg/kg	<2mg/kg	25mg/kg
Soluble barium	20mg/kg	<10mg/kg	1000mg/kg
Soluble cadmium	<7mg/kg	<7mg/kg	75mg/kg
Soluble chromium	<5mg/kg	<5mg/kg	60mg/kg
Soluble lead	<5mg/kg	<5mg/kg	90mg/kg
Soluble mercury	<5mg/kg	<5mg/kg	60mg/kg
Soluble selenium	<10mg/kg	<10mg/kg	500mg/kg

2. U.S. CPSC 16 CFR Part 1303 & U.S. Consumer Product Safety Improvement Act of 2008 (Public law 110-314) & California proposition 65 - total lead analysis in paint and similar surface coating

Method used: CPSC-CH-E1003-09

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Paint materials (on dried film) (see Remark 1)

- (a) Bright red (A1Y)
- (b) Orange (A2Y)
- (c) Dark brown (A10Y)

Coating materials

- (d) Kitchen center: red/white/silver grey baking paint
- (e) Kitchen center: blue green/white/silver gray baking paint
- (f) Kitchen center: yellow wood grain on fibreboard

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
(a)~(f)	<0.001%	0.009% (90ppm, 90mg/kg)

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3. U.S. Consumer Product Safety Improvement Act of 2008 (Public law 110-314) & California proposition 65 - total lead analysis in non-surface coating materials

Method used: CPSC-CH-E1002-08.1

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Plastic materials

- (a) Kitchen center: flesh plastic (see Remark 6)
- (b) Kitchen center: transparent plastic part
- (c) Kitchen center: silver gray/deep red/blue green (see Remark 7)
- (d) Kitchen center: translucent door holder

Wooden materials (see Remark 2)

- (e) Kitchen center: flesh wood
- (f) Kitchen center: light flesh plywood

Metallic material (non-small part) (see Remark 6)

- (g) Kitchen center: silver metal screw

Tested component (see Remark 6)

- (h) Kitchen center: deep flesh fibreboard

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
(a)~(h)	<10mg/kg	100mg/kg (0.01%, 100ppm)

4. U.S. Consumer Product Safety Improvement Act of 2008 (Public law 110-314) & California proposition 65 - phthalates analysis (as per client's request) (see Remark 8)

Method used: CPSC-CH-C1001-09.3

Determined by: Gas Chromatograph-Mass Spectrometry

For children's toys that can be placed in children's mouth or child care article

Paint materials (on dried film) (see Remark 1)

- (a) Bright red (A1Y)
- (b) Orange (A2Y)
- (c) Dark brown (A10Y)

Coating materials

- (d) Kitchen center: red/white/silver grey baking paint
- (e) Kitchen center: blue green/white/silver gray baking paint
- (f) Kitchen center: yellow wood grain on fibreboard

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Plastic materials

- (g) Kitchen center: flesh plastic (see Remark 6)
- (h) Kitchen center: transparent plastic part
- (i) Kitchen center: silver gray/deep red/blue green (see Remark 7)
- (j) Kitchen center: translucent door holder

Wooden materials (see Remark 2)

- (k) Kitchen center: flesh wood
- (l) Kitchen center: light flesh plywood

Tested component (see Remark 6)

- (m) Kitchen center: deep flesh fibreboard

Short form	Full name	(a)~(m)	Limit for CPSIA
(DEHP)	Di (2-ethylhexyl) phthalate	<0.01%	0.1%
(BBP)	Butyl benzyl phthalate	<0.01%	0.1%
(DBP)	Di-butyl phthalate	<0.01%	0.1%
(DINP)	Di-iso-nonyl phthalate	<0.01%	0.1%
(DIDP)	Di-iso-decyl phthalate	<0.01%	0.1%
(DnOP)	Di-n-octyl phthalate	<0.01%	0.1%
Short form	Full name	(a)~(m)	Limit for California proposition 65
(DnHP)	di-n-hexyl phthalate	<0.01%	0.1%

Remark 1:

The test results are transferred from the test report GP158734 which issued on 2013-11-26.

Remark 2:

The test results are transferred from the test report GP158737 which issued on 2013-11-29.

Remark 3:

The test results are transferred from the test report GP158771 which issued on 2013-12-18.

Remark 4:

The test results are transferred from the test report GP158817 which issued on 2013-12-24.

Remark 5:

The test results are transferred from the test report GP158830 which issued on 2013-01-06.

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Remark 6:

The test results are transferred from the test report GP158857 which issued on 2013-12-23.

Remark 7:

As required by client, the specimens were mixed into one for test. When testing, equal weight of each sample was used. In this circumstance, the lowest individual sample weight was used to calculate the test result.

Remark 8:

The California proposition 65 for DnHP content is not covered by the CNAS accreditation.

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Appendix A



PHOTOGRAPH(S) OF THE SAMPLE

***** End of Document *****

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