

## GWSTC Test Report

Date: 2014-05-04

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NO: GP158792

**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

Apart from section 7.1, 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      Gong Chen Yin  
Lab Manager      Technical Supervisor



Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results show in this report were determined by this laboratory in accordance with its terms of accreditation.

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### DESCRIPTION OF SAMPLE(S):

One (1) style, three (3) pieces of submitted sample (photo attached at Appendix A) said to be:  
MAGNETIC MAZE  
ITEM NO.: ET2A02  
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:

2013-11-26, 2014-04-21

### DATE TESTED:

ASTM F 963-11

- physical and mechanical test: 2013-11-29, 2014-04-21
- flammability test: 2013-11-29
- heavy elements test: 2014-04-24 to 2014-04-30

U.S. CPSC 16 CFR Part 1303/U.S. Consumer Product Safety Improvement Act of 2008  
(Public law 110-314)/California proposition 65  
2014-04-24 to 2014-04-30

### AGE GRADING:

The sample did not contain any age grade; however, the applicant requested it to be tested according to the age grade of 2 years and up.

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**AGE GRADING FOR TESTING:**

2 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* <sup>1</sup>
4.6	Small Objects	Pass
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
4.11	Nails and Fasteners	Pass
4.14	Cords and Elastics in toys	Pass
4.34	Balls	Pass
4.38	Magnets	Pass
5	<u>Safety Labeling Requirements</u>	----
5.2	Age Grading Labeling	* <sup>2</sup>
7	<u>Producer's Markings</u>	----
7.1	Name and Address of the Producer/Distributor	* <sup>3</sup>

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
8.22	Tests for Loops and Cords
8.24	Magnet test Methods

\*<sup>1</sup> = The applicant confirmed the toy was made of new material.

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\*<sup>2</sup> = Refer to Age Grading Assessment.

\*<sup>3</sup> = There were no name and address of producer or distributor required by the standard on the submitted sample.

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>
MAGNETIC MAZE	Dot 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

Plastic materials

- (a) Magnetic maze: white nylon string
- (b) Magnetic maze: transparent (see Remark 3)
- (c) Magnetic maze: flesh (see Remark 4)

Wood material

- (d) Magnetic maze: light flesh plywood (see Remark 2)

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
(a)~(d)	<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

Plastic materials

- (a) Magnetic maze: white nylon string
- (b) Magnetic maze: transparent (see Remark 3)
- (c) Magnetic maze: flesh (see Remark 4)

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Wood material

(d) Magnetic maze: light flesh plywood (see Remark 2)

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

2. 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) Magnetic maze: white nylon string
- (b) Magnetic maze: transparent (see Remark 3)
- (c) Magnetic maze: flesh (see Remark 4)

Wood material

(d) Magnetic maze: light flesh plywood (see Remark 2)

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

3. 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 5)

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

Plastic materials

- (a) Magnetic maze: white nylon string
- (b) Magnetic maze: transparent (see Remark 3)
- (c) Magnetic maze: flesh (see Remark 4)

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Wood material

(d) Magnetic maze: light flesh plywood (see Remark 2)

Plastic materials

- (e) Magnetic maze: red beads
- (f) Magnetic maze: yellow beads
- (g) Magnetic maze: blue beads

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

- (h) Bright red (A1Y)
- (i) Orange (A2Y)
- (j) Dark green (A5Y)
- (k) Light blue (A8Y)

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

Short form	Full name	(h)~(k)	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	(h)~(k)	Limit for California proposition 65
(DnHP)	di-n-hexyl phthalate	<0.01%	0.1%

\* = 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.

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**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 GP158817 which issued on 2013-12-24.

**Remark 4:**

The test results are transferred from the test report GP158857 which issued on 2013-12-13.

**Remark 5:**

The CPSIA and California proposition 65 for phthalates content is not covered by the HOKLAS accreditation.

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Appendix A



**PHOTOGRAPH(S) OF THE SAMPLE**

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

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