

## GWSTC Test Report

Date: 2014-05-04

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NO: GP158794

**APPLICANT:** (Code: CML001)

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

Attn: Candy

**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

**CONCLUSION:**

Toys Regulations SOR/2011-17 under Canada Consumer Product Safety Act – Physical and Mechanical Test

Apart from clause 3, the submitted sample complied with the test requirement.

Toys Regulations SOR/2011-17 under Canada Consumer Product Safety Act – Flammability Test

The submitted sample complied with the test requirement.

Toys Regulations SOR/2011-17 under Canada Consumer Product Safety Act – Toxic element content

The submitted sample complied with the test requirement.

Consumer Products Containing Lead (Contact with mouth) Regulations SOR/2010-273 under Canada Consumer Product Safety Act

The submitted sample complied with the test requirement.

Phthalates Regulation SOR/2010-298 under Canada Consumer Product Safety Act: Phthalates content

The submitted sample complied with the test requirement.

Approved Signatory:



Feng Jun Guo      Gong Chen Yin  
Lab Manager      Technical Supervisor

**Guangzhou Worldwide Standards and Testing Company Limited**

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## GWSTC Test Report

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**DATE OF SAMPLES RECEIVED:**

2013-11-26, 2014-04-21

**INVESTIGATIONS REQUESTED:**

Toys Regulations SOR/2011-17 under Canada Consumer Product Safety Act

- Physical and mechanical tests
- Flammability tests
- Toxic elements content
- Total lead content
- Phthalates content

**DATE TESTED:**

Physical and mechanical & Flammability tests

2013-11-26 to 2013-11-29, 2014-04-21

Toxic elements, Total lead & Phthalates content

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.

**AGE GRADING FOR TESTING:**

2 years and up.

**TEST RESULTS:**

1. Physical and mechanical tests  
Ref.: Toys Regulations SOR/2011-17, Canada Consumer Product Safety Act

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
3	Official languages	*
	<u>Mechanical hazards</u>	----
7	For children under 3 years of age	Pass
10	Plastic edges	Pass
11	Wood	Pass
13	Fasteners	Pass
21	Cellulose nitrate detection	See 2.1

\* = The Toys Regulation Stated that: 'Any written statement or warning required by the these Regulations must appear in both English and French'.  
No French & English information was found on the tested sample.

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Use and abuse testing:

<u>Applicable</u>	<u>Description</u>
<u>Clause</u>	
Schedule 1 M00.1	Small parts cylinder
M00.2	Sharp edges
M00.3	Sharp points
M01.1	Reasonable foreseeable use
	Drop test
	Push/pull test

### 2. Flammability Tests

#### 2.1 Cellulose nitrate detection

Ref.: Toys Regulations SOR/2011-17, section 21

Result: not detected.

### 3. Toxic elements analysis

Ref.: Toys Regulations SOR/2011-17, section 23

Method used: Inductively Coupled Plasma-Optical Emission Spectrometer

#### 3.1 Total lead and mercury analysis

##### Plastic materials

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

	<u>(a)~(c)</u>	<u>Limit</u>
Total lead.....	<10mg/kg	90mg/kg
Total mercury.....	ND	ND

ND = Not detected (<1mg/kg)

#### 3.2 Soluble toxic elements analysis

##### Plastic materials

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

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	<u>(a)~(c)</u>	<u>Limit</u>
Soluble antimony.....	<0.0025%	0.1%
Soluble arsenic.....	<0.0025%	0.1%
Soluble barium.....	<0.0025%	0.1%
Soluble cadmium.....	<0.0025%	0.1%
Soluble selenium.....	<0.0025%	0.1%

4. Total lead content in mouth-contact articles

Ref.: Consumer Products Containing Lead (Contact with mouth) Regulations SOR/2010-273  
Method used: Inductively Coupled Plasma-Optical Emission Spectrometer

Wooden material (see Remark 1)

(a) Magnetic maze: light flesh plywood

	<u>(a)</u>	<u>Limit</u>
Total lead.....	<10mg/kg	90mg/kg

5. Phthalates content

Ref.: Toys Regulations SOR/2011-17, section 27(3d) and Phthalates Regulation SOR/2010-298  
Method used: Gas Chromatography Mass Spectrometer

Plastic materials

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

	<u>(a)~(c)</u>	<u>Limit</u>
Di (2-ethylhexyl) phthalate (DEHP) .....	Not Detected	1000mg/kg
Benzyl-n-butyl phthalate (BBP) .....	Not Detected	1000mg/kg
Di-n-butyl phthalate (DBP) .....	Not Detected	1000mg/kg
Diisononyl phthalate (DINP) .....	Not Detected	1000mg/kg*
Diisodecyl phthalate (DIDP) .....	Not Detected	1000mg/kg*
Di-n-octyl phthalate (DNOP) .....	Not Detected	1000mg/kg*

\* = The content of each phthalate above shall not be greater than 1000mg/kg by mass of the plasticised material which can be placed in the mouth of children under 4 years of age.

Notes: Method detection limit = 100mg/kg

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**Remark 1:**

The test results are transferred from the test report GP158739 which issued on 2013-11-29.

**Remark 2:**

The test results are transferred from the test report GP158819 which issued on 2013-12-24.

**Remark 3:**

The test results are transferred from the test report GP158859 which issued on 2013-12-23.

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Appendix A



**PHOTOGRAPH(S) OF THE SAMPLE**

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

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