

# GUANGDONG WONDER TESTING INTERNATIONAL CO., LTD.

## TEST REPORT

Report No.: WDX22070429EN  
Applicant: Able Connection Limited  
Address: Room 1527-1530, 15th floor, Building  
26-29, Huangsha Avenue, Liwan District,  
Guangzhou City, Guangdong , China  
Date: Jul. 15, 2022

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**Applicant:** Able Connection Limited

**Address:** Room 1527-1530, 15th floor, Building 26-29, Huangsha Avenue, Liwan District, Guangzhou City, Guangdong, China

The following merchandise was (were) submitted and identified by client as:

**Sample Name:** Magnetic Magic Cube

**Number of Sample:** 3pcs

**Style of Sample:** G16283

**Applicant's Specified**

**Testing Age Group:** 5+

**Tested Age Grading:** 5+

**Sample Received Date:** Jul. 13, 2022

**Completed Date:** Jul. 15, 2022

**Test Result(s):** Please refer to next page(s).

**Test Requested and Conclusion(s):**

No.	Test Sample(s)	Standard(s) and Requirement(s)	Conclusion(s)
1	Submitted sample	ASTM F963-17 - Physical and Mechanical Properties (See the next page for specific section)	PASS
2	Submitted sample	ASTM F963-17 - Flammability	PASS
3	Tested materials of submitted samples	ASTM F963-17 Section 4.3.5.2 - Total Lead content in substrate material	PASS
4	Tested materials of submitted samples	ASTM F963-17 Section 4.3.5.2 - Soluble Heavy Metals content in substrate material	PASS
5	Tested materials of submitted samples	US Public Law 110-314 [Consumer Product Safety Improvement Act of 2008(CPSIA)] - Total Lead (Pb) in accessible substrate materials	PASS
6	Tested materials of submitted samples	US Public Law 110-314 [Consumer Product Safety Improvement Act of 2008(CPSIA)] - Phthalates	PASS

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**Test Result(s):**

**ASTM F963-17 - Mechanical and Physical Properties**

Section(s)	Test Item(s)	Assessment(s)
		2
4	Safety requirements	PASS
4.1	Material quality	PASS
4.2	Flammability	PASS
4.3.7	Stuffing Materials	NA
4.4	Electrical/thermal energy	NA
4.5	Sound producing toys	NA
4.6	Small objects	NA
4.7	Accessible edges	PASS
4.8	Projections	NA
4.9	Accessible points	PASS
4.10	Wires or rods	NA
4.11	Nails and fasteners	NA
4.12	Plastic film	NR*
4.13	Folding mechanisms and hinges	NA
4.14	Cords and elastics in toys	NA
4.15	Stability and over-load requirements	NA
4.16	Confined spaces	NA
4.17	Wheels, tires, and axles	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.19	Simulated protective devices	NA
4.20	Pacifiers	NA
4.21	Projectile toys	NA
4.22	Teethers and teething toys	NA
4.23	Rattles	NA
4.24	Squeeze toys	NA
4.25	Battery-operated toys	NA
4.26	Toys intended to be attached to a crib or playpen	NA
4.27	Stuffed and beanbag-type toys	NA
4.28	Stroller and carriage toys	NA
4.29	Art materials	NA
4.30	Toy gun marking	NA
4.31	Balloons	NA

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Section(s)	Test Item(s)	Assessment(s)
		2
4.32	Certain toys with nearly spherical ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-shaped objects	NA
4.37	Yo Yo Elastic Tether Toys	NA
4.38	Magnets	NA
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding Materials	NA
4.41	Toy Chests	NA
5	Labeling Requirement	NR*
5.1	Federal government Requirements	NA
5.2	Age grading labeling	NR*
5.3	Safety labeling requirements	NA
5.4	Aquatic toys	NA
5.5	Crib and playpen toys	NA
5.6	Mobiles	NA
5.7	Stroller and carriage toys	NA
5.8	Toys intended to be assembled by an adult	NA
5.9	Simulated protective devices	NA
5.10	Toys with functional sharp edges or points	NA
5.11	Small objects, small balls, marbles, and balloons	NA
5.12	Toy caps	NA
5.13	Art materials	NA
5.14	Electric toys	NA
5.15	Battery operated toys	NA
5.16	Promotional materials	NR*
5.17	Magnets	NA
6	Instructional Literature	NR*
6.1	Definition and description	NR*
6.2	Crib and playpen toys	NA
6.3	Mobiles	NA
6.4	Toys intended to be assembled by an adult	NA
6.5	Battery operated toys	NA

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Section(s)	Test Item(s)	Assessment(s)
		2
6.6	Battery Powered Ride-on Toys	NA
6.7	Toys in Contact with Food	NA
6.8	Toy Chests	NA
7	Producer's Marking	NR*
7.1	Name of the producer or the distributor	NR*
	Address of the producer or the distributor	NR*
7.2	Battery powered ride on toys	NA
7.3	Toy Chests	NA

- Note:**
- The test age group of the sample is specified by client.
  - The name and address of the producer or the distributor shall be marked on the toy or the package.

The submitted samples were undergone the use and abuse tests in accordance with the Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations:

Test Item(s)	FHSA	Test Parameter(s)
Impact Test	Section 1500.53(b)	4×3.0 ft
Torque Test	Section 1500.53(e)	4 in.lbf 10s
Tension Test	Section 1500.53(f)	15 lbf 10s
Compression Test	Section 1500.53(g)	30 lbf 10s

**Test Result(s):**

**ASTM F963-17 - Annex A5 Flammability**

Sample Description(s)	Ignition Point	Burn Length (inch)	Burn Time(s) (sec.)	Burn Rate (inch/sec.)	Limit(s) (inch/sec.)	Conclusion(s)
Magic cube	Diagonal	/	/	DNI	0.10	PASS

- Note:**
- All styles of the submitted toy samples (and its accessories) was/were tested, the above result only showed the most severe burn rate of the samples.
  - DNI =Did not ignite.

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**Test Result(s):**

**ASTM F963-17 Section 4.3.5.2 - Total Lead content in substrate material<sup>n</sup>**

Method: With reference to ASTM F963-17 Section 8.3.1, analyzed by Atomic Absorption Spectroscopy (AAS) or Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Material No.	RL (mg/kg)	Limit(s) (mg/kg)	Result(s) (mg/kg)	Conclusion(s)
1	10	100	ND	PASS

**ASTM F963-17 Section 4.3.5.2 - Soluble Heavy Metals content in substrate material**

Method: With reference to ASTM F963-17 Section 8.3.2 to Section 8.3.5, analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Test Element(s)	Pb	Sb	As	Ba	Se	Cd	Hg	Cr	Conclusion(s)
RL (mg/kg)	5	5	2.5	5	5	5	2.5	2.5	
Limit (s) (mg/kg)	90	60	25	1000	500	75	60	60	
Material No.	Result(s) (mg/kg)								Conclusion(s)
1	ND	ND	ND	ND	ND	ND	ND	ND	

**CPSIA - The Lead content of accessible substrate materials**

Method:

Metal - With reference to CPSC-CH-E1001-08.3(2012)

Nonmetal - With reference to CPSC-CH-E1002-08.3(2012)

Analyzed by Atomic Absorption Spectroscopy (AAS) or Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Material No.	RL (mg/kg)	Limit(s) (mg/kg)	Result(s) (mg/kg)	Conclusion(s)
1	10	100	ND	PASS

**Test Result(s):**

**CPSIA - Phthalates**

Method: With reference to CPSC-CH-C1001-09.4(2018) , analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Test Substance(s)	DBP	BBP	DEHP	DINP	DIBP	DPENP	DnHP	DCHP	Conclusion(s)
CAS No.	84-74-2	85-68-7	117-81-7	28553-12-0	84-69-5	131-18-0	84-75-3	84-61-7	
RL (mg/kg)	30	30	30	50	30	30	30	30	
Limit(s) (mg/kg)	1000	1000	1000	1000	1000	1000	1000	1000	
Material No.	Result(s) (mg/kg)								
1	ND	ND	ND	ND	ND	ND	ND	ND	PASS

- Note:**
- Children's toys and child care articles shall not more than 1000mg/kg DBP, BBP, DEHP, DIBP, DPENP, DnHP or DCHP.
    - Children's toys defined as 12 years and under.
    - Child care articles to facilitate sleep or feeding of children 3 years and under, or to help children with sucking and teething.
  - Children's toy that can be placed in the mouth and child care articles shall not more than 1000mg/kg DINP.
    - Toys that can be kept in the mouth by a child so that it can be sucked or chewed.
    - Toys or part of toy with one dimension less than 5cm.

- Remark :**
- mg/kg = milligram per kilogram(ppm).
  - ND = Not Detected (< RL).
  - RL = Report Limit.
  - NA = Not Applicable.
  - NR = Not Requested.
  - "\*" = Per client's requirement, the clause was not evaluated.
  - As per client's request, only the appointed points and items have been tested.
  - "n" = The test item is not accredited by CNAS.The result/conclusion is for reference only.

**Test Material List**

Material No.	Description(s)	Location(s)
1	White paper with multicolor printing with glue	Sticker
2	Magic cube	Overall

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Photo(s) of Sample(s):



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Photo(s) of Display:



\*\*\*End of Report\*\*\*

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