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检测  
TESTING  
CNAS L5186

# Test Report

Report No.: CTT170530249EN

Date: May. 12, 2017

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Applicant: CSP INC

Address: 8248 W. ORANGE DR GLENDALE,AZ 85303 USA

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

<b>Sample Name:</b>	3-D PUZZLES		
<b>Model No.:</b>	5-717		
<b>Buyer:</b>	Kids' Korner		
<b>Sample Size:</b>	5 set	<b>Packaging Provided:</b>	Yes
<b>Labelled Age Group:</b>	--	<b>Tested Age Grading:</b>	3+
<b>Appropriate Age Grading:</b>	3+	<b>Applicant's Specified Testing Age Group:</b>	3+
<b>Sample Received Date:</b>	May. 09, 2017		
<b>Test Period:</b>	May. 09, 2017 to May. 12, 2017		

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

Signed for and on Behalf of CTT



Yuhu / Lab supervisor

Consumer Testing Technology Co., Ltd.

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

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	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
2	Tested materials of submitted samples	US Public Law 110-314 [Consumer Product Safety Improvement Act of 2008(CPSIA)] - Phthalates	PASS (Please refer to "N" note of the next page)
3	Tested materials of submitted samples	ASTM F963-16 Section 4.3.5.2 - Soluble Heavy Metals content in substrate material	PASS
4	Submitted sample	ASTM F963-16 - Physical and Mechanical Properties (Excluding Section 5.16, 6.1, 7.1)	PASS
5	Submitted sample	ASTM F963-16 - Flammability	PASS

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**Test Result(s):**

The Lead content of accessible substrate materials - CPSIA

Method:

Metal - CPSC-CH-E1001-08.3

Nonmetal - CPSC-CH-E1002-08.3

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

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
1	100	N.D.	PASS
2	100	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (< RL).
  3. RL (Reporting Limit) = 10 mg/kg.

Phthalates - CPSIA

Method: CPSC-CH-C1001-09.3, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Substances	DBP	BBP	DEHP	DINP	DNOP	DIDP	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	28553-12-0	117-84-0	26761-40-0	
Limit (mg/kg)	1000	1000	1000	1000	1000	1000	
RL (mg/kg)	30	30	30	50	30	50	
Material No.	Result (mg/kg)						PASS
1+2 <sup>N</sup>	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (< RL).
  3. RL = Reporting Limit.
  4. Children's toys and child care articles shall not more than 1000 mg/kg DBP, BBP or DEHP.
    - 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.
  5. Children's toy that can be placed in the mouth and child care articles shall not more than 1000 mg/kg DINP, DNOP or DIDP.
    - 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 5 cm.
  6. "N" = This data is obtained from composite testing on more than one materials, it is possible that

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result obtained from individual testing on any one of the materials is substantially higher. Please be cautious when using this data for compliance evaluation.

Soluble Heavy Metals content in substrate material - ASTM F963-16 Section 4.3.5.2 <sup>n</sup>

Method: ASTM F963-16 Section 8.3.2 to Section 8.3.5, analyzed by Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES).

Elements	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Conclusion
Limit (mg/kg)	25	1000	75	60	60	90	60	500	
RL (mg/kg)	2.5	5	5	5	5	5	5	5	
Material No.	Result (mg/kg)								
2	N.D.	15	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. N.D. = Not Detected (< RL).
  3. RL = Reporting Limit.

**Test Material List:**

The following materials apply only to the samples submitted for chemical testing

Material No.	Description	Location	Remark
1	White foam with brown paper with multicolor printing with glue	Puzzle(house)	--
2	White foam with brown paper with multicolor printing with glue	Puzzle(automobile race)	--

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**Test Result(s):**

Mechanical and Physical Properties - ASTM F963-16<sup>s</sup>

Section	Testing Items	Assessment
		Jigsaw (body)
4	Safety requirements	PASS
4.1	Material quality	PASS
4.3.7	Stuffing materials	NA
4.4	Electrical/thermal energy	NA
4.5	Sound producing toys	NA
4.6	Small objects	NA
4.6.1	Toys intended for children under 36 months of age	NA
4.6.2	Mouth actuated toys	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	NA
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

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4.28	Stroller and carriage toys	NA
4.29	Art materials	NA
4.30	Toy gun marking	NA
4.32	Certain toys with nearly spherical ends	NA
4.34	Balls	NA
4.34.1	Toy intended for children under 36 months of age	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*
5.4	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

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6.5	Battery operated toys	NA
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	
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:**
1. NA = Not Applicable
  2. NR =Not Requested
  3. "\*\*\*" = Per client's requirement, the packaging was not evaluated.
  4. 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: <sup>s</sup>

Testing Items	FHSA	Parameter
		Jigsaw (body)
Drop Test	Section 1500.53(b)	4x3.0 ft
Torque Test	Section 1500.53(e)	4.0 inch ·lbf
Tension Test	Section 1500.53(f)	15 lbf

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**Test Result(s):**

Flammability - ASTM F963-16 Annex A5 <sup>s</sup>

Sample Description	Ignition Location	Burn Length (inch)	Burn Time (sec.)	Burn Rate (inch/sec.)	Limit (inch/sec.)	Conclusion
Jigsaw (body)	Edge	0.1	10	IBE	0.15	PASS

- Note:**
- 1.DNI = Did not ignite.
  - 2.IBE = Ignited but self-extinguished before burn-rate could be determined.
  - 3.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.

**Remark:**

CTT Co., Ltd. is the US Consumer Product Safety Commission (CPSC) Accredited Third Party Testing Laboratory, identification number is 1362, and shall refer to <http://www.cpsc.gov/cgi-bin/labsearch/>.

**Photo of Sample:**



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

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