



# TEST REPORT

Report No.: CCI220400228EN

Report Date: Apr. 19, 2022

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**Applicant** : Yiwu Leyin Digital Printing Co., Ltd

**Address** : 163 Chouyi East Road, Yiting Town, Yiwu City, Zhejiang Province, China

(The Submitted Sample Said To Be)

**Sample Name** : WOODEN PUZZLE

**Model**

S,M,L,A2,A3,A4,A5,T801,T802,T803,T804,T805,T806,T807,T808,T809,  
T810,T811,T812,T813,T814,T815,T816,T817,T818,T819,T820,T821,  
T822,T823,T824,T825,T826,T827,T828,T829,T830,T831,T832,T833,  
T834,T835,T836,T837,T838,T839,T840,T841,T842,T843,T844,T845,  
T846,T847,T848,T849,T850,T851,T852,T853,T854,T855,T856,T857,  
T858,T859,T860,T861,T862,T863,T864,T865,T866,T867,T868,T869,  
T870,T871,T872,T873,T874,T875,T876,T877,T878,T879,T880,T881,  
T882,T883,T884,T885,T886,T887,T888,T89,T890,T891,T892,T893,  
T894,T895,T896,T897,T898,T899,T900

**Labeled Age Grading** : Not provided

**Requested Age Grading** : 3+

**Age Group Applied in Testing** : Over 3 years

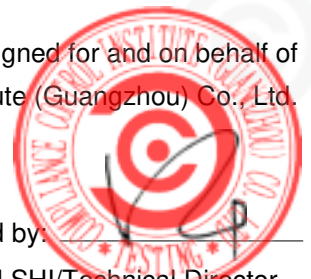
**Test Period** : From Apr. 19, 2022 to Apr. 19, 2022

**Tests conducted** : As requested by the applicant, for details refer to next page(s).

## Executive Summary:

No.	TESTED SAMPLE	STANDARD / REQUIREMENT	CONCLUSION
1	Submitted samples	EN71-1:2014+A1:2018 – for mechanical and physical properties	PASS
2		EN71-2:2020 – Flammability test	PASS
3	Tested material(s) of submitted sample(s)	EN71-3:2019 – Migration of certain elements	PASS

Signed for and on behalf of  
Compliance Control Institute (Guangzhou) Co., Ltd.



Approved by: \_\_\_\_\_

Pascal SHI/Technical Director



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## TESTS CONDUCTED:

### 1. Mechanical and Physical Test

As per European Standard on Safety of toys EN71-1:2014+A1:2018.

Clause	Testing items	Assessment
4	General requirements	
4.1	Material	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	P
4.8	Points and metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectile toys	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy disguise costumes	NA
4.27	Flying toys	NA
5	Toys intended for children under 36 months	
5.1	General requirements	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA

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Clause	Testing items	Assessment
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15	Sledges with cords for pulling	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	P
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectile toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates and skateboards and certain other ride-on toys	NA
7.11	Toys intended to be strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethingers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic/electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	NA

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Remark : P = Pass NA = Not Applicable

Remark : Additional information according to the Toy Safety Directives 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements:

## 1. Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and the CE-marking shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompany the toy. In addition, manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document

Accompanying the toy.

- Manufacturer's name was missed.
- Manufacturer's address was missed.
- Importer's name was missed.
- Importer's address was missed.
- Product identification code missed.
- CE-marking was missed.

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## 2. Flammability Test

As per European Standard on Safety of Toys EN71-2:2020.

Clause	Testing items	Assessment
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Remark: P = Pass NA = Not applicable



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### 3. Migration of Certain Elements

Test Method: With reference to EN 71-3:2019, analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES), Gas Chromatograph-Mass Spectrometry (GC-MS)

Substance	RL (mg/kg)	Test Result (mg/kg)
		1
Aluminium (Al)	5.0	N.D.
Antimony (Sb)	5.0	N.D.
Arsenic (As)	0.5	N.D.
Barium (Ba)	5.0	N.D.
Boron (B)	5.0	N.D.
Cadmium (Cd)	0.2	N.D.
Chromium(III) (Cr <sup>3+</sup> )	2.0	N.D.
Chromium(VI) (Cr <sup>6+</sup> )	0.05	N.D.
Cobalt (Co)	1.0	N.D.
Copper (Cu)	5.0	N.D.
Lead (Pb)	2.0	N.D.
Manganese (Mn)	5.0	N.D.
Mercury (Hg)	1.0	N.D.
Nickel (Ni)	5.0	N.D.
Selenium (Se)	5.0	N.D.
Strontium (Sr)	5.0	N.D.
Tin (Sn)	5.0	N.D.
Organic tin☆	0.1	N.D.
Zinc (Zn)	5.0	N.D.
<b>Conclusion</b>		<b>PASS</b>



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## The table of Migration Elements limit

Substance	Limit (mg/kg)		
	Dry, brittle, powder-like or pliable materials	Liquid or sticky materials	Scraped-off materials
Aluminium (Al)	2250	560	28130
Antimony (Sb)	45	11.3	560
Arsenic (As)	3.8	0.9	47
Barium (Ba)	1500	375	18750
Boron (B)	1200	300	15000
Cadmium (Cd)	1.3	0.3	17
Chromium(III) (Cr <sup>3+</sup> )	37.5	9.4	460
Chromium(VI) (Cr <sup>6+</sup> )	0.02	0.005	0.053
Cobalt (Co)	10.5	2.6	130
Copper (Cu)	622.5	156	7700
Lead (Pb)	2.0	0.5	23
Manganese (Mn)	1200	300	15000
Mercury (Hg)	7.5	1.9	94
Nickel (Ni)	75	18.8	930
Selenium (Se)	37.5	9.4	460
Strontium (Sr)	4500	1125	56000
Tin (Sn)	15000	3750	180000
Organic tin ☆	0.9	0.2	12
Zinc (Zn)	3750	938	46000

- Note:**
1. mg/kg = part per million (ppm).
  2. N.D. = Not Detected (< RL).
  3. RL = Report Limit.
  4. Calculated concentration of Chromium(III) (Cr<sup>3+</sup>) and Chromium(VI) (Cr<sup>6+</sup>) are based on total Chromium
  5. "☆" = Organic tin include Methyl tin, Butyltin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin, Dimethyl tin. The migration of organic tin is expressed as tributyltin



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List of the Tested Materials:

No	Description
1	Primary color wooden with multicolor printing

## Test Photo Appendix



Remark: All test results in this test report are quoted from the test report CCI210800299EN

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