



# Test Report

Report No.: SFT20071313922-01E

Date: Jul.20, 2020

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Applicant: VeryPuzzle Co., Ltd

Address: RM 023, 9/F BLK G KWAI SHING IND BLDG (STAGE 2) 42-46 TAI LIN PAI RD KWAI CHUNG NT HONG KONG

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

Sample Name: Puzzle parts  
 #50、#51、#52、#53、#54、#55、#56、#57、#58、#59、#60、#61、#62、#63、#64、  
 #65、#66、#67、#68、#69、#70、#71、#72、#73、#74、#75、#76、#77、#78、#79、  
 #80、#81、#82、#83、#84、#85、#86、#87、#88、#89、#90、#91、#92、#93、#94、  
 #95、#96、#97、#98、#99、#100、#101、#102、#103、#104、#105、#106、#107、  
 Model No.: #108、#109、#110、#111、#112、#113、#114、#115、#116、#117、#118、#119、  
 #120、#121、#122、#123、#124、#125、#126、#127、#128、#129、#130、#131、  
 #132、#133、#134、#135、#136、#137、#138、#139、#140、#141、#142、#143、  
 #144、#145、#146、#147、#148、#149、#150

Country of Origin: P.R.China  
 Manufacturer: VeryPuzzle Co., Ltd  
 Age grading: 6+  
 Age group applied in testing: Over 6 years  
 Receive date: Jul.13, 2020  
 Test Period: From Jul.13, 2020 to Jul.16, 2020

## SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION
Mechanical and physical properties - European Standard EN 71 Part 1:2014 with Amendments A1: 2018	PASS(except 7.1&7.2)
Flammability - European Standard EN 71 Part 2: 2011 with Amendments A1: 2014	PASS
Migration of Certain Elements - European Standard EN 71 Part 3: 2019(Category III)	PASS

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

Signed for and on Behalf of SFT



Jack Zhong / Technical Manager  
Guangdong Safety Testing Co., Ltd.

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Guangdong Safety Testing Co., Ltd.

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Test Result(s):

**Mechanical and physical properties - European Standard EN 71 Part 1:2014+A1:2018**

Test method: EN 71-1:2014+A1:2018

Section	Testing Items	Assessment
4	General requirements	PASS
4.1	Material Cleanliness	PASS
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	PASS
4.8	Points and metallic wires	PASS
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	Toys disguise costumes	NA
4.27	Flying toys	NA

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5	Toy intended for children under 36 months	NA
5.1	General requirements	NA
5.1a	Small part requirement on toy & removable Components(Test method 8.2)	NA
5.1b	Torque test (Test method 8.3)	NA
	Tension test (Test method 8.4)	NA
	Drop test (Test method 8.5)	NA
	Tip over test (Test method 8.6)	NA
	Impact test (Test method 8.7)	NA
	Compression test (Test method 8.8)	NA
	Sharp edge (Test method 8.11)	NA
	Sharp point (Test method 8.12)	NA
	Tension test for magnet (Test method 8.34)	NA
5.1c	Potential hazardous metal points and wires with a cross section of 2mm or less	NA
5.1d	Large and bulky toys	NA
5.1e	Glued wooden toys and toys with glued on plastic decals plastic decals	NA
5.1f	The casing of toys intended for children too young to sit up unaided	NA
5.1g	Foam toys and toys containing accessible foam components	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
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	See remark 1&2
7.1	General	See remark 1

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	Remark 1: It is drawn to your attention that the name and address of manufacturer and importer in EEC country, toy's type, batch, serial, model number or other element allowing the identification and the advice statement for keeping relevant information together with CE-marking should appear as specified in clause 7 of this standard.	
7.2	Toys not intended for children under 36 months	See remark 2
	Remark 2: In order to comply with the requirements of this clause, the toy or its packaging must be marked with "WARNING! Not suitable for children under 3 years. Small parts. choking hazard.	
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
7.7.1	Toys with projectiles which are able to discharge an object other than that provide with the toy	NA
7.7.2	Toys capable of discharging a projectile with a kinetic energy greater than 0.08J	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA
7.10.1	Roller skates, inline skates and skateboards	NA
7.10.2	Ride-on toys without a braking device	NA
7.10.3	Electrically-driven ride-on toys	NA
7.10.4	Instructions for use	NA
7.11	Toys otherwise intended to be strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethers	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

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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
7.25.1	Flying toys	NA
7.25.2	Remote controlled flying toys	NA
7.26	Improvised projectiles	NA

Note / Key :

1. NA = Not Applicable.
2. NC = Not Conducted as per client's request.

## **Flammability - European Standard EN 71 Part 2: 2011 with Amendments A1: 2014**

Test method: EN 71-2:2011+A1:2014(E)

Section	Testing Items	Assessment
4	Requirements	PASS
4.1	General requirements	PASS
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

Note / Key :

DNI =Did Not Ignite

IBE =Ignite But Self-Extinguished

After the test ,the rate of spread of flame is between 10 mm/s and 30 mm/s, Accordance with the requirement of EN71-2:2014 clause 4.3,the appropriate part(s) of the toy and the packaging shall be permanently marked with the following warning: "**Warning. Keep away from fire**".

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**Migration of Certain Elements - European Standard EN 71 Part 3: 2019**

Test method: EN 71-3:2019. Analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES)/Inductively Coupled Plasma Mass Spectrophotometer (ICP-MS)/ Gas Chromatography-Mass Spectrometer.(GC-MS)  
 Class: Category III-Scraped-off toy material

Analyte	MDL (mg/kg)	Limit (mg/kg)	Result (mg/kg)
			1
Aluminium (Al)	5.0	70000	22
Antimony (Sb)	5.0	560	ND
Arsenic (As)	5.0	47	ND
Barium (Ba)	5.0	18750	ND
Boron (B)	5.0	15000	ND
Cadmium (Cd)	5.0	17	ND
Chromium III (Cr III)	2.0	460	ND
Chromium VI (Cr VI)	0.05	0.053	ND
Cobalt (Co)	5.0	130	ND
Copper (Cu)	5.0	7700	ND
Lead (Pb)	5.0	23	ND
Manganese (Mn)	5.0	15000	ND
Mercury (Hg)	5.0	94	ND
Nickel (Ni)	5.0	930	ND
Selenium (Se)	5.0	460	ND
Strontium (Sr)	5.0	56000	ND
Tin (Sn)	5.0	180000	ND
Organic tin	5.0	12	ND
Zinc (Zn)	5.0	46000	ND
Conclusion			PASS

Note / Key :

mg/kg = milligrams per kilogram (ppm=parts per million)      ND= Not detected  
 \* = Average of duplicate analysis      MDL=Method detected limit  
 Organic tin = migration of total organic tin is expressed as tributyl tin cation content in mg/kg  
 # = Verified results (see Remark)

Remark: Soluble Chromium (III) and Soluble Chromium (VI) were reported as Soluble Total Chromium, further confirmation test will be required when Total Chromium is detected

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◇Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation unless further specified.

Test Item	Sample Description/Location	Style
1	Black plastic (puzzle parts)	-

Photo of Sample



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

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