

# Test Report

Report No.: NB2023021098

Date: March 2, 2023

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**Applicant:** DONGGUAN HENG FU PLASTIC PRODUCTS CO. LTD  
**Address:** ROOM 201, BUILDING 2, YUANYE INDUSTRIAL PARK, NO. 9, YINLING ROAD,  
YUFENG, ZHANGMUTOU TOWN, DONGGUAN CITY

The following merchandise were submitted and identified by the clients as:

Sample Name: liquid floor tiles/PVC mat  
Applicant's specified age group for testing: 3+ years old  
Testing Age Grading: 3+ years old

The following information were confirmed by the laboratory:

Sample Receiving Date: February 27, 2023  
Testing Period: From February 27, 2023 to March 2, 2023  
Test Results: Please refer to next page(s)

## Summary of test results

Test Requested	Conclusion
1 Mechanical and Physical Properties - EN 71-1: 2014+A1: 2018, Safety of toys	PASS
2 Flammability requirements - EN 71-2: 2020, Safety of toys	PASS
3 Migration of Certain Elements - EN 71-3:2019+A1:2021, Safety of toys	PASS

Signed for and on behalf of Guangdong NewBest Testing Service Co., Ltd.

Approved by:

  
Manager 

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**Test results:**

Tested part(s) description:

Test Item(s)	Description	Location
I001	Transparent PVC	Front
I002	White PVC	Middle
I003	Grey foam	Back

**1. Mechanical and Physical Properties - EN 71-1: 2014+A1: 2018, Safety of toys**

Section	Testing Items	Assessment
4	General requirements	
4.1	Material cleanliness	M
4.2	Assembly	N/A
4.3	Flexible plastic sheeting	N/A
4.4	Toy bags	N/A
4.5	Glass	N/A
4.6	Expanding materials	N/A
4.7	Edges	M
4.8	Points and metallic wires	M
4.9	Protruding parts	N/A
4.10	Parts moving against each other	N/A
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	N/A
4.12	Balloons	N/A
4.13	Cords of toy kites and other flying toys	N/A
4.14	Enclosures	N/A
4.15	Toys intended to bear the mass of a child	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectiles	N/A
4.18	Aquatic toys and inflatable toys	N/A
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	N/A
4.20	Acoustics	N/A
4.21	Toys containing a non-electrical heat source	N/A
4.22	Small balls	N/A
4.23	Magnets	N/A
4.24	Yo-yo balls	N/A
4.25	Toys attached to food	N/A
4.26	Toy disguise costumes	N/A

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Section	Testing Items	Assessment
4.27	Flying toys	N/A
5	Toys intended for children under 36 months	
5.1	General requirements	N/A
5.2	Soft-filled toys and soft-filled parts of toy	N/A
5.3	Plastic sheeting	N/A
5.4	Cords, chains and electrical cables in toys	N/A
5.5	Liquid-filled toys	N/A
5.6	Speed limitation of electrically-driven ride-on toys	N/A
5.7	Glass and porcelain	N/A
5.8	Shape and size of certain toys	N/A
5.9	Toys comprising monofilament fibers	N/A
5.10	Small balls	N/A
5.11	Play figures	N/A
5.12	Hemispheric-shaped toys	N/A
5.13	Suction cups	N/A
5.14	Straps intended to be worn fully or partially around the neck	N/A
5.15	Sledges with cords for pulling	N/A
6	Packaging	N/A
7	Warnings, markings and instructions for use	
7.1	General	NR
7.2	Toys not intended for children under 36 months	NR
7.3	Latex balloons	NR
7.4	Aquatic toys	NR
7.5	Functional toys	NR
7.6	Hazardous sharp functional edges and points	NR
7.7	Projectiles	NR
7.8	Imitation protective masks and helmets	NR
7.9	Toy kites	NR
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NR
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator	NR
7.12	Liquids-filled teethingers	NR
7.13	Percussion caps specifically designed for use in toys	NR
7.14	Acoustics	NR
7.15	Toy bicycles	NR
7.16	Toys intended to bear the mass of a child	NR
7.17	Toys comprising monofilament fibres	NR
7.18	Toy scooters	NR

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Section	Testing Items	Assessment
7.19	Rocking horses and similar toys	NR
7.20	Magnetic/electrical experimental sets	NR
7.21	Toys with electrical cables exceeding 300mm in length	NR
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NR
7.23	Toys intended to be attached to a cradle, cot or perambulator	NR
7.24	Sledges with cords for pulling	NR
7.25	Flying toys	NR
7.26	Improvised projectiles	NR

**Note:** M = Meet NM = Not meet N/A = Not Applicable NR = Not Requested by the client  
Per client's requirement, Section 7 was not evaluated

The submitted samples were undergone the use and abuse tests in accordance with the EN 71-1: 2014+A1: 2018.

Testing Items	Parameter
Torque test	0.34Nm
Tension test	90N
Drop test	5×850mm
Impact test	1×1Kg×100mm
Compression test	110N

### 2009/48/EC General Labeling Requirement

Requirement	On toy	On packaging
CE Mark	No Present	No Present
Manufacturer name and address	No Present	No Present
Importer name and address	No Present	No Present
Product Identification	No Present	No Present

**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.

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## 2. Flammability requirements - EN 71-2: 2020 Safety of toys

Section	Testing Items	Assessment
4.1	General requirements	M
4.2	Toys to be worn on the head	N/A
4.3	Toy disguise costumes and toys intended to be worn by a child in play	N/A
4.4	Toys intended to be entered by a child	N/A
4.5	Soft-filled toys	N/A

**Note:** M = Meet NM = Not meet N/A = Not Applicable NR = Not Requested by the client

## 3. Migration of Certain Elements - EN 71-3:2019+A1:2021 , Safety of toys

Test Method: EN 71-3:2019+A1:2021

Analyte	Unit	Requirement	MDL	Result		
		Category III		Test Item(s)		
				I001	I002	I003
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	7
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.

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Analyte	Unit	Requirement	MDL	Result		
		Category III		Test Item(s)		
				I001	I002	I003
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	31	20	269
<b>Conclusion</b>				PASS	PASS	PASS

Note: N.D.= Not Detected(<MDL)  
mg/kg = milligram per kilogram = ppm = part per million  
MDL= Detection Limit

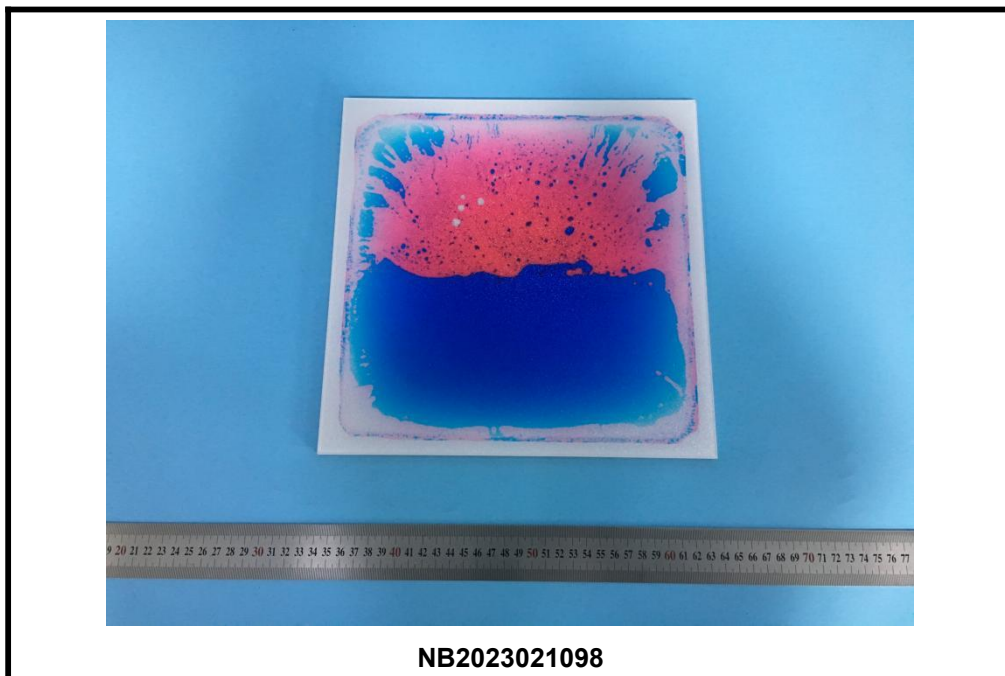
Remark: Organic tin test were conducted when soluble tin were determinated. Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019+A1:2021. Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation.

Disclaimer Measurement Uncertainty:

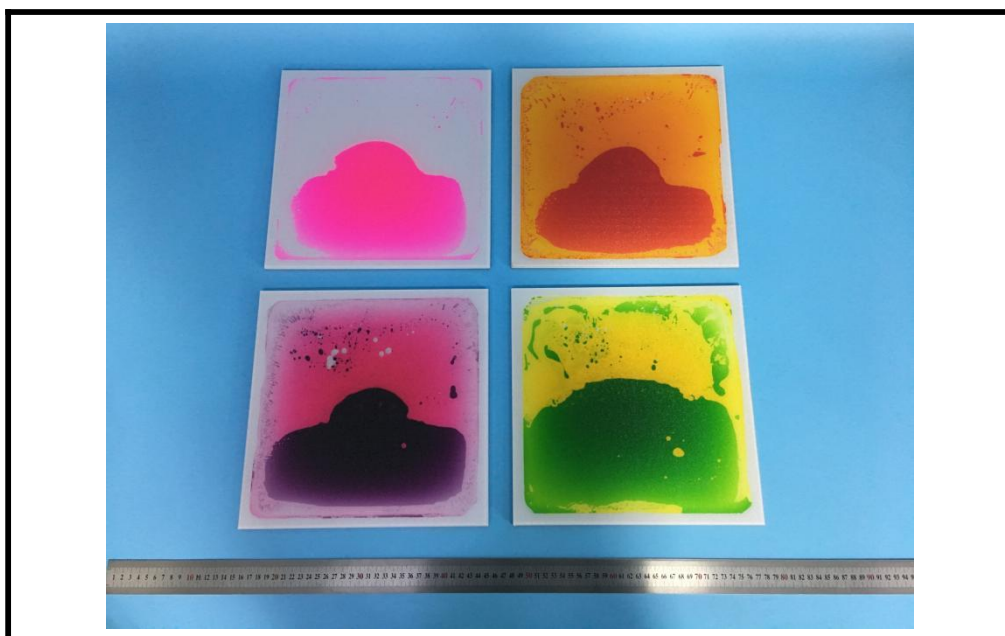
Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as PASS nor as FAIL.

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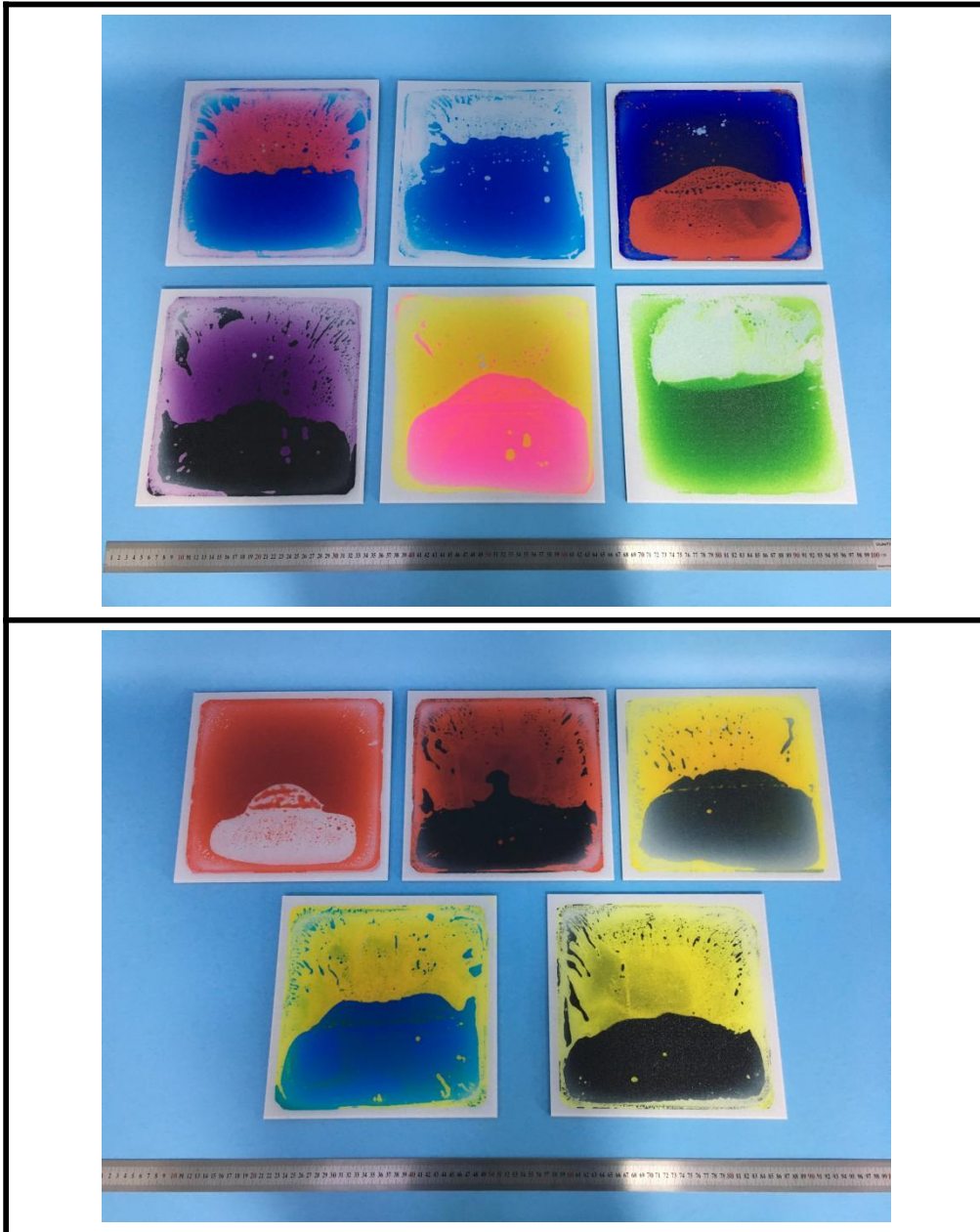
Samples photograph



Pictures only for reference submitted by client



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