



## Test Report

Report No : DST20240801212EN

Date: Aug.10,2024



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Applicant : Dongguan Heng Fu plastic products Co., LTD  
Address : Room 201, Building 2, No. 9, Yifeng Yinling Road, Zhangmu Town, Dongguan City, Guangdong Province, China  
Manufacturer : Dongguan Heng Fu plastic products Co., LTD  
Address : Room 201, Building 2, No. 9, Yifeng Yinling Road, Zhangmu Town, Dongguan City, Guangdong Province, China

The following sample(s) was /were submitted and identified on behalf of the clients as :

Sample Name : Liquid floor tiles  
Sample Description : Liquid floor tiles  
Labeled Age Grading : Over 3 years old  
Test Age Grading : Over 3 years old  
Manufacture Date : Jul. 2024  
Sample Received Date : Aug.08, 2024  
Testing Period : Aug.08, 2024 To Aug.10, 2024  
Test Requested : Test samples according to customer requirements  
Test Method : Please refer to next page(s).  
Test Result : Please refer to next page(s).  
CPSC Lab ID : 1779

Cong Deng

Cong Deng  
Technical director



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RESULT SUMMARY:

Test Requested		Conclusion
A	ASTM F963-23 Standard Consumer Safety Specification for Toy Safety	--
1	Physical & Mechanical Test	PASS
2	Section 4.2- Flammability Test	PASS
2.1	16 CFR 1610 Standard For Flammability Of Clothing Textiles	NA
2.2	16 CFR 1500.44 Method for determining extremely flammable and flammable solids.	PASS
3	Section 4.3.5.1-Heavy metal content in paint and similar surface coating material	NA
4	Section 4.3.5.2-Heavy Elements in Substrate Materials	PASS

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Sample Description:

No.	Description
1.	Liquid floor tiles (Finished product)
2.	Plastic

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A. Test Result(s) of ASTM F963-23

1.ASTM F963-23 Standard Consumer Safety Specification For Toy Safety:Physical & Mechanical Tests

Section	Testing Items	Result
		No.1
4.1	Material quality (visual check on cleanliness)	PASS
4.2	Flammability Test	PASS (See Result Page)
4.3	Toxicology	--
4.3.5	Heavy Elements	--
4.3.5.1	Paint and Similar Surface-Coating Materials	PASS (See Result Page)
4.3.5.2	Toy Substrate Materials	PASS (See Result Page)
4.3.6	Cosmetics, Liquids, Pastes, Putties, Gels, Powders, and Items of Avian Feather Origin	NA
4.3.7	Stuffing Materials	NA
4.4	Electrical/Thermal Energy	NA
4.5	Sound-Producing Toys	NA
4.6	Small objects	--
4.6.1	Toys that are intended for children under 36 months of age	NA
4.6.2	Mouth-actuated toys	NA
4.6.3	Toys and games that are intended for use by children who are at least three years old but less than six years of age	PASS
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, straps and elastics	NA
4.15	Stability and Over-Load Requirements	NA
4.16	Confined spaces	NA
4.17	Wheels, tires, and axles	NA

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Section	Testing Items	Result
		No.1
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	Teether 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
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 requirements	--
5.1	Federal government requirements	PASS
5.2	Age grading labeling	PASS
	Remark :The toy or package should indicate the minimum age for intended use.	
5.3	Safety Labeling Requirements	PASS
5.4	Aquatic Toys	NA
5.5	Crib and Playpen Toys	NA

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Section	Testing Items	Result
		No.1
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	PASS
5.12	Art Materials	NA
5.13	Electric Toys	NA
5.14	Battery-Operated Toys	NA
5.15	Promotional Materials	NA
5.16	Magnets	NA
6	Instructional literature	--
6.1	Definition and description	PASS
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
6.6	Battery powered ride-on toys	NA
6.7	Toys in contact with food	NA
6.8	Toy Chests	NA
6.9	The instructional material for toys which require a manufacturer-supplied specialty or custom tool to access the battery(ies) shall direct caregivers to retain the tool for future use, to store it where the child cannot access it, and state that the tool is not a toy.	NA
7	Producer's markings	--
7.1	Name of producer/distributor and Address (toy & package)	PASS
7.2	Battery-Powered Ride-on Toys	NA
7.3	Toy Chests	NA
8	Test Methods	--
8.5	Normal use testing	PASS
8.5.1	Washable test	NA

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Section	Testing Items	Result
		No.1
8.6	Abuse Testing	PASS
8.7	Impact test	PASS
8.8	Torque test	PASS
8.9	Tension test	PASS
8.10	Compression test	NA
8.12	Flexure test	NA
8.13	Methods for Mouth-Actuated Toys and Mouth-Actuated Projectile Toys Test	NA
8.14	Projectiles	NA
8.16	Tension test for pompoms	NA

Note / Key :.NA = Not Applicable, NC= Not Conducted as per client's request.Note / Key :.NA = Not Applicable, NC= Not Conducted as per client's request.

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**Result Page of ASTM F963-23:**

**2.ASTM F963-23 Flammability Test Section 4.2**

**2.1.16 CFR 1610 Standard For Flammability Of Clothing Textiles**

Number	Test Results	Conclusion
1	NA	1 level

**Remarks:**

Series	Textile Type	Performance Requirements
1 level	No fluff, tufting or other surface fuzz	Flame spread time $\geq$ 3.5S
	Has fluff, tufted or other types of surface raising	Flame spread time $>$ 7S
2 level	Has fluff, tufted or other types of surface raising	4s $\leq$ Flame spread time $\leq$ 7S
3 level	No fluff, tufting or other surface fuzz	Flame spread time $<$ 3.5S
	Has fluff, tufted or other types of surface raising	Flame spread time $<$ 4.0S And accompanied by matrix burning

**Note / Key :**

1. DNI = Did not ignite.
2. NA = Not Applicable
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.

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2.2 16 CFR 1500.44: Method for determining extremely flammable and flammable solids.

Sample	Burn rate (inch/sec.)	Limit (inch/sec.)
No.1	IBE	0.10

Note / Key :

1. DNI = Did not ignite.
2. NA = Not Applicable
3. IBE = Ignited but self-extinguished before burn-rate could be determined.
4. 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.
5. The burn rate of a composite product ( that is solid/fabric combined)exceeds 0.1 in./s in part due to the presence of a permanently attached fabric, then a secondary test to fabric separately was conducted in accordance the standard

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3.Section 4.3.5.1-Heavy metal content in paint and similar surface coating material

Test Method: ASTM F963-23, Section 8.3.5 .analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item(s)	Unit	Result	--	--	MDL	Limit
		--	--	--		
Soluble Arsenic (As)	mg/kg	NA	--	--	2.5	25
Soluble Barium (Ba)	mg/kg	NA	--	--	5	1000
Soluble Cadmium (Cd)	mg/kg	NA	--	--	5	75
Soluble Chromium (Cr)	mg/kg	NA	--	--	5	60
Soluble Mercury (Hg)	mg/kg	NA	--	--	5	60
Soluble Lead (Pb)	mg/kg	NA	--	--	5	90
Soluble Antimony (Sb)	mg/kg	NA	--	--	5	60
Soluble Selenium (Se)	mg/kg	NA	--	--	5	500
Total Lead (Pb)	mg/kg	NA	--	--	10	90(coating/paint)
Conclusion	-	NA	--	--	-	-

Note / Key :1.mg/kg = milligram per kilogram = ppm = part per

2.MDL = Method Detection Limit

3.NA= Not Applicable

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4.ASTM F963-23 Section 4.3.5.2- Heavy Elements in Substrate Materials

Test Method: ASTM F963-23, Section 8.3.5 (Excluding 8.3.5.5(3)).

Test Item(s)	Unit	Result	--	--	MDL	Limit
		No.2	--	--		
Soluble Arsenic (As)	mg/kg	N.D.	--	--	2.5	25
Soluble Barium (Ba)	mg/kg	N.D.	--	--	5	1000
Soluble Cadmium (Cd)	mg/kg	N.D.	--	--	5	75
Soluble Chromium (Cr)	mg/kg	N.D.	--	--	5	60
Soluble Mercury (Hg)	mg/kg	N.D.	--	--	5	60
Soluble Lead (Pb)	mg/kg	N.D.	--	--	5	90
Soluble Antimony (Sb)	mg/kg	N.D.	--	--	5	60
Soluble Selenium (Se)	mg/kg	N.D.	--	--	5	500
Total Lead (Pb)	mg/kg	N.D.	--	--	10	100(substrate)
Conclusion	-	PASS	--	--	--	--

Note / Key :1.N.D. = Not detected(<MDL)

2.mg/kg = milligram per kilogram = ppm = part per

3. MDL = Method Detection Limit

4. Tested part(s) was/were specified by client

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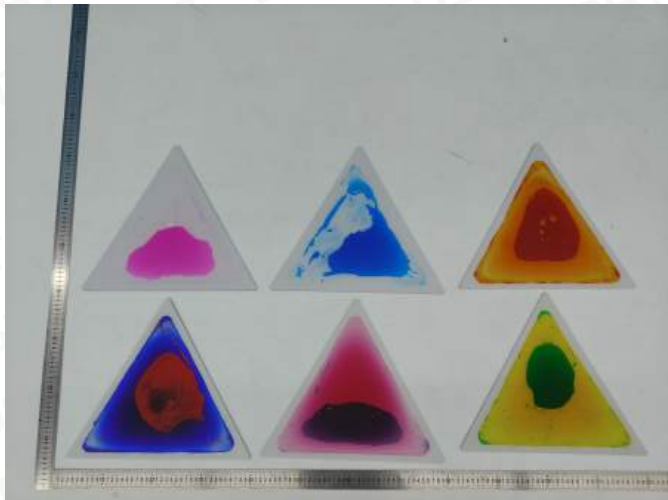
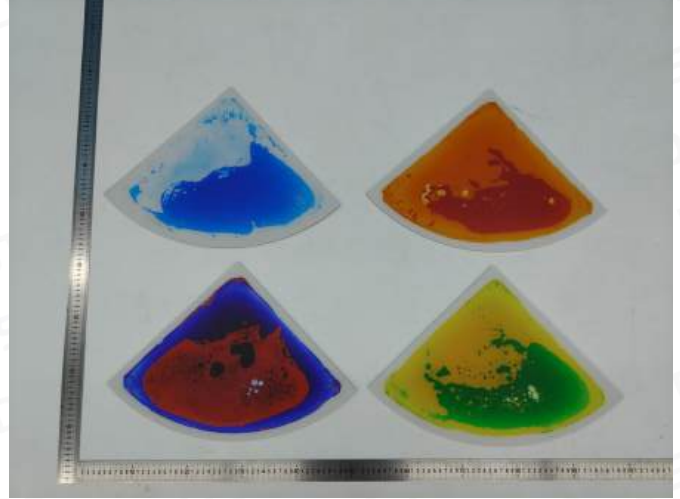
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Sample and packaging pictures:

Test sample pictures



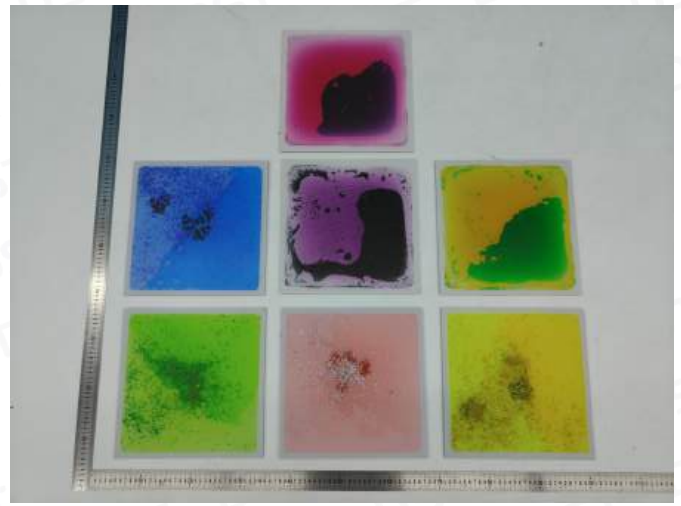
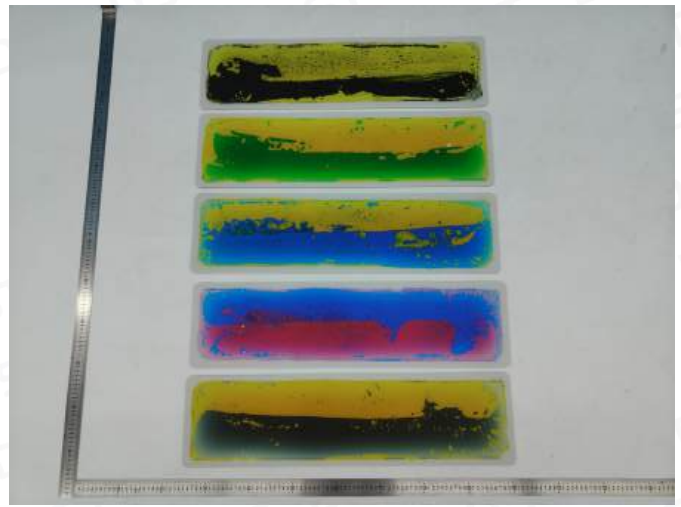
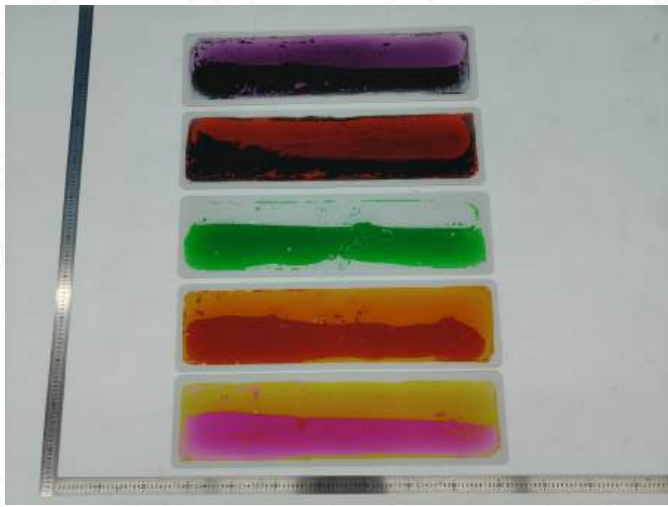
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Test sample pictures



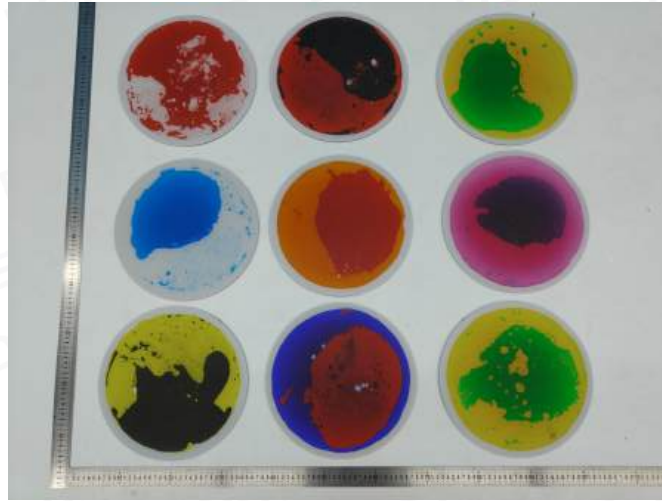
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Test sample pictures



Tracking Label

Product Label	
Product Name	Liquid floor tiles
Age grade	Over 3 years old
Manufacturer	Dongguan Heng Fu plastic products Co., LTD
Manufacture Address	Room 201, Building 2, No. 9, Yifeng Yinling Road, Zhangmu Town, Dongguan City, Guangdong Province, China
Manufacture Date	Jul. 2024
Made in China	
WARNING:	CHOKING HAZARD—Small parts. Not for children under 3 yrs.

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

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