



Test Report

Report No :DST20241207234E

Date:Jan.03, 2025

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Applicant : Dongguan Hengfu Plastic Products Co., Ltd
Address : Room 201, Building 2, Yuanye Industrial Park, No. 9 Yufeng Yinling Road, Zhangmutou Town,
Dongguan City, Guangdong Province, China
Manufacturer : Dongguan Hengfu Plastic Products Co., Ltd
Address : Room 201, Building 2, Yuanye Industrial Park, No. 9 Yufeng Yinling Road, Zhangmutou Town,
Dongguan City, Guangdong Province, China

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

Sample Name : liquid sensory toy
Sample Description : liquid sensory toy
Labeled Age Grading : Over 3 years old
Test Age Grading : Over 3 years old
Manufacture Date : Dec.2024
Sample Received Date : Dec.30, 2024
Testing Period : Dec.30, 2024 To Jan.03, 2025
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



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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
B	As specified in title 16, code of federal regulations, chapter II- consumer products safety commission of U.S.A	--
1	16 CFR 1500.48 Sharp Point	PASS
2	16 CFR 1500.49 Sharp Edge	PASS
3	16 CFR 1501 Small part rule	PASS
4	16 CFR 1500.50.51.52.53 Simulating use and abuse of toys	PASS
C	16 CFR Part 1303 Lead Paint Regulation	NA
D	Consumer Product Safety Improvement Act of 2008 (CPSIA)	--
1	CPSIA Sec.101.(a) Lead in Total Lead Content in Substrate Children's Products CPSIA Sec.101.(f) Lead content for coating	PASS
2	CPSIA Sec.108 Determination of Phthalates	PASS
3	CPSIA Sec. 103 Tracking Labels for Children's Products	PASS
E	16 CFR Part 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	PASS

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Sample Description:

No.	Description
1.	liquid sensory toy (Finished product)
2.	Transparent PVC

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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
		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	PASS
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
		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
		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
		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.

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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.)
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

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
		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

3. MDL = Method Detection Limit

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

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B.CPSC 16 CFR 1500.48,16 CFR 1500.49,16 CFR 1500.50 and CPSC 16 CFR 1501- Small Part

NO.	Test Item(s)	Requirements of Standard	Result
			1
1	16 CFR 1500.48	Technical requirements for determining a sharp point in toys and other articles intended for use by children under 8 years of age.	PASS
2	16 CFR 1500.49	Technical requirements for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age.	PASS
3	CPSC 16 CFR 1500.50	Normal use testing	PASS
4	CPSC 16 CFR 1500.53b	Impact test	PASS
5	CPSC 16 CFR 1500.53c	Bite test	NA
6	CPSC 16 CFR 1500.53d	Flexure test	NA
7	CPSC 16 CFR 1500.53e	Torque test	PASS
8	CPSC 16 CFR 1500.53f	Tension test	PASS
9	CPSC 16 CFR 1500.53g	Compression test	NA
10	CPSC 16 CFR 1501-Small part	Toys and other article intended for use by children under 3 years of age shall not have small parts since it presents a choking, aspiration, or ingestion hazard. Toys and other article are subject to this requirement before or after use and abuse testing.	PASS

Note:NA= Not Applicable

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C.16 CFR Part 1303 Lead Paint Regulation (CPSC-CH-E1003-09.1)

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item	Unit	Result	--	--	MDL	Limit
		--	--	--		
Lead (Pb)	mg/kg	NA	--	--	10	90
Conclusion	--	NA	--	--	--	--

Note: 1.mg/kg=milligram per kilogram

2..NA= Not Applicable

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D.Test Result(s) of Consumer Product Safety Improvement Act of 2008 (CPSIA)

1.1.Consumer Product Safety Improvement Act of 2008 (CPSIA)

-CPSIA Sec.101.(a) Lead in Non-Metal Children's Products (CPSC-CH-E1002-08.3)

-CPSIA Sec.101.(a) Lead in Metal Children's Products (CPSC-CH-E1001-08.3)

Test Method: With reference to CPSC-CH-E1002-08.3, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item	Unit	Result	--	--	MDL	Limit
		2	--	--		
Lead (Pb)	mg/kg	N.D.	--	--	10	100
Conclusion	--	PASS	--	--	--	--

Note:

1. mg/kg=milligram per kilogram
2. N.D.=No Detection(<MDL);MDL =Method Detection Limit.

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1.2.Consumer Product Safety Improvement Act of 2008 (CPSIA)

-CPSIA Sec.101.(f) Lead content for coating (CPSC-CH-E1003-09.1)

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by Inductively Coupled Plasma
Optical Emission Spectrometer (ICP-OES).

Test Item	Unit	Result	--	--	MDL	Limit
		--	--	--		
Lead (Pb)	mg/kg	NA	--	--	10	90
Conclusion	--	NA	--	--	--	--

Note:

1. mg/kg=milligram per kilogram
2. N.D.=No Detection(<MDL);MDL =Method Detection Limit.

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2.Consumer Product Safety Improvement Act of 2008 (CPSIA)**-CPSIA Sec.108 Determination of Phthalates (CPSC-CH-C1001:09.4)**

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Item	CAS No.	Unit	Result	MDL	Limit
			2		
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	%	N.D.	0.005	0.1
Di-butyl phthalate (DBP)	84-74-2	%	N.D.	0.005	0.1
Butyl benzyl phthalate (BBP)	85-68-7	%	N.D.	0.005	0.1
Di-isononyl phthalate (DINP)	28553- 12-0 68515-48-0	%	N.D.	0.010	0.1
Di-n-pentyl phthalate(DPENP)	131- 18-0	%	N.D.	0.010	0.1
Di-n-hexyl phthalate(DHEXP)	84-75-3	%	N.D.	0.005	0.1
Di-isobutyl phthalate(DIBP)	84-69-5	%	N.D.	0.005	0.1
Dicyclohexyl phthalate(DCHP)	84-61-7	%	N.D.	0.005	0.1
Conclusion	--	--	PASS	--	--

Note:

1. % = percentage by weight, 0.0001% = 1 mg/kg
2. N.D.=No Detection(<MDL);MDL =Method Detection Limit.

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3.As specified in Consumer Product Safety Act (CPSA) of Section 14(a)(5) Tracking Label for children's products.

Description	Result
	1
a) Is the product intended for children under 12 years? If no, the section is not applicable.	Y
b) Is the product under the exemption of marking on children's product?	Y
1. Product is too small to be marked.	Y
2. Products stay with or be contained in their original packaging.	Y
3. Product is sold through a bulk vending matching.	N
4. Physical mark would weaken or damage the product or impair its utility.	N
5. Product surface would be impossible to mark permanently.	Y
6. Aesthetics of the product would be ruined by a mark.	N
c) Is the product and packaging or only packaging (for product exempted from the marking) marked below information?	P
1) Name of the manufacturer or the name of the private labeler.	Y
2) Manufacturer or private labeler location, including the name of the country, and the name or other means of coding of city and state.	Y
3) Date of production of the product, in a form of MM/YY or any other coding system.	Y
4) Cohort information (including the batch, run number, or another identifying characteristic).	Y
d) Is the label permanent after below permanency testing?	P

Remark: P = Pass, F = Fail, Y = Yes , N= Not

Note: The tracking label assessment was based on the submitted samples and the information provided by the applicant.

There was no verification on the validity of such information.

Remark: As specified by applicant, to test content in the selected materials of the submitted samples. The test results are only responsible for the submitted sample.

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E.16 CFR Part 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Item	CAS No.	Unit	Result	MDL	Limit
			2		
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	%	N.D.	0.005	0.1
Di-butyl phthalate (DBP)	84-74-2	%	N.D.	0.005	0.1
Butyl benzyl phthalate (BBP)	85-68-7	%	N.D.	0.005	0.1
Di-isononyl phthalate (DINP)	28553-12-0 68515-48-0	%	N.D.	0.010	0.1
Di-n-pentyl phthalate(DPENP)	131-18-0	%	N.D.	0.010	0.1
Di-n-hexyl phthalate(DHEXP)	84-75-3	%	N.D.	0.005	0.1
Di-isobutyl phthalate(DIBP)	84-69-5	%	N.D.	0.005	0.1
Dicyclohexyl phthalate(DCHP)	84-61-7	%	N.D.	0.005	0.1
Di-n-octyl phthalate(DNOP)	117-84-0	%	N.D.	0.005	0.1
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	%	N.D.	0.010	0.1
Conclusion	--	--	PASS	--	--

Note:

1. % = percentage by weight, 0.0001% = 1 mg/kg
2. N.D.=No Detection(<MDL);MDL =Method Detection Limit.
3. NA = Not Applicable

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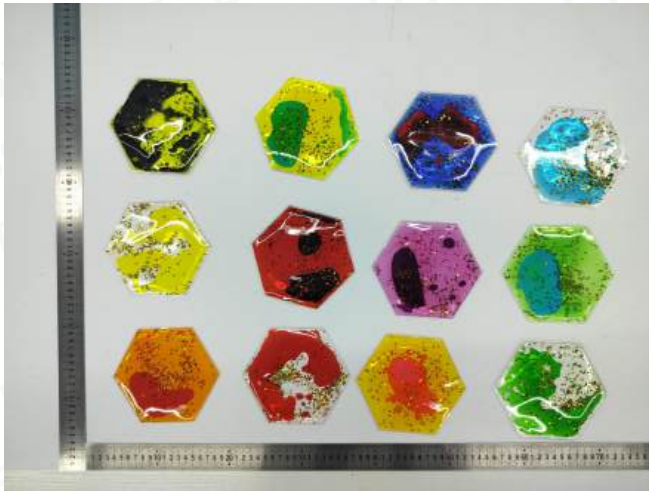
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Sample and packaging pictures:

Test sample pictures



Tracking Label



*** End of Report ***

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