



Test Report

Report No.: LST22092099ENS2

Date: Sep. 22, 2022

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Applicant: Overseas Trading (HK) Limited

Address: NO.1302 Room, 13 Floor, NO.B2 Building, Ningbo R & D Park, 399 Juxian Road, National Hi-Tech Zone, Ningbo, China

The following sample(s) information and test item(s) were submitted and identified by/on behalf of the applicant

Sample Name: Sport Bottle

Sample Receiving Date: Sep. 01, 2022

Testing Period: Sep. 02, 2022 to Sep. 22, 2022

Summary of Test Result(s):

No.	Test Requested	Result(s)
1	Tested materials of submitted samples refer to FDA 21 CFR 177.1520(PE) - Density - Maximum extractable fraction in n-Hexane - Maximum soluble fraction in Xylene	PASS
2	Tested materials of submitted samples refer to US Public Law 110-314 [Consumer Product Safety Improvement Act of 2008(CPSIA)] - Total Lead (Pb) in accessible substrate materials	PASS
3	Tested materials of submitted samples refer to ASTM F963-17 Section 4.3.5.2 - Total Lead (Pb) content in substrate material	PASS
4	Tested materials of submitted samples refer to US Public Law 110-314 [Consumer Product Safety Improvement Act of 2008(CPSIA)] - 16 CFR 1307 - Phthalates	PASS
5	Tested materials of submitted samples refer to ASTM F963-17 Section 4.3.5.2 - Soluble Heavy Metals content in substrate material	PASS
6	Submitted samples refer to ASTM F963-17 - Physical and Mechanical Properties (Excluding Section 5.2, 7.1)	PASS
7	Submitted samples refer to ASTM F963-17 - Flammability	PASS

*****FOR FURTHER DETAILS,PLEASE REFER TO THE FOLLOWING PAGE(S)*****

Signed for and on behalf of LST

Rory / Lab manager

Signed for and on behalf of LST

Davy / Lab supervisor



Zhejiang Lisen Testing Technology Co., Ltd.

Address: 5 Floor, Building 13, Yiwu Science & Technology Park, No. 968 Xuefeng West Road, Yiwu, Zhejiang, China

Tel: 86-579-85573858

E-mail: zj@lisenlab.com

URL: http://www.lisenlab.com

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Sample Description

Material No.	Component Description	Location
01	Green plastic	Suction nozzle
02	Green plastic	Lid
03	Dark blue plastic	Bottle
04	Green plastic	Bottle
05	Blue plastic	Bottle
06	Orange plastic	Bottle
07	Green bottle	Green bottle entirety

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Photo of sample



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Test Result(s):

FDA 21CFR 177.1520 (PE) ^s

Method:

Density - With reference to ASTM D1505-10

Xylene Extractives and n-Hexane Extractives - With reference to U.S. FDA 21 CFR 177.1520

Material No.	Test Item	Limit	Result	Conclusion
01	Density	0.850 -1.000g/cm ³	0.96g/cm ³	PASS
	n-Hexane Extractives	≤ 5.5%	0.26%	PASS
	Xylene Extractives	≤ 11.3%	1.1%	PASS
02	Density	0.850 -1.000g/cm ³	0.94g/cm ³	PASS
	n-Hexane Extractives	≤ 5.5%	0.33%	PASS
	Xylene Extractives	≤ 11.3%	1.5%	PASS
03	Density	0.850 -1.000g/cm ³	0.96g/cm ³	PASS
	n-Hexane Extractives	≤ 5.5%	1.2%	PASS
	Xylene Extractives	≤ 11.3%	3.1%	PASS

- Note:**
1. g/cm³ = grams per cubic centimeter.
 2. % = Percent by weight.

CPSIA - Total Lead(Pb) content of accessible substrate materials

Method:With reference to CPSC-CH-E1002-08.3,analyzed by Atomic Absorption Spectroscopy (AAS).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
(04+05+06)▲	100	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 10 mg/kg.
 4. “▲”this data for several samples of mixed test results, the actual data of one or several samples in mixed samples are likely more than the results, please be careful to use this data.

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ASTM F963-17 Section 4.3.5.2 - Total Lead(Pb) content in substrate material

Method: With reference to CPSC-CH-E1002-08.3, analyzed by Atomic Absorption Spectroscopy (AAS).

Material No.	RL (mg/kg)	Limit (mg/kg)	Result (mg/kg)	Conclusion
(04+05+06)▲	10	100	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL = Reporting Limit.
 4. “▲”this data for several samples of mixed test results, the actual data of one or several samples in mixed samples are likely more than the results, please be careful to use this data.

CPSIA (16 CFR 1307) - Phthalates

Method: With reference to CPSC-CH-C1001-09.4, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Substances	DBP	BBP	DEHP	DINP	DHEXP	DIBP	DCHP	DPENP	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	28553-12-0/ 68515-48-0	84-75-3	84-69-5	84-61-7	131-18-0	
Limit (mg/kg)	1000	1000	1000	1000	1000	1000	1000	1000	
RL (mg/kg)	50	50	50	100	50	50	50	50	
Material No.	Result (mg/kg)								
(04+05+06)▲	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL = Reporting Limit.
 4. Children’s toys and child care articles shall not more than 1000mg/kg DBP, BBP, DEHP, DINP, DIBP, DCHP, DPENP and DHEXP
 - Children’s toys defined as 12 years and under.
 - Child care articles to facilitate sleep or feeding of children 3 years and under, or to help children with sucking and teething.
 5. Polypropylene (PP), polyethylene (PE), acrylonitrile butadiene styrene (ABS), general purpose polystyrene (GPPS), medium-impact polystyrene (MIPS), high-impact polystyrene (HIPS), and super high-impact polystyrene (SHIPS), and their additives as listed in 16 CFR 1308 are exempt from testing. If material identification is not provided, phthalate testing will be conducted on all plastic materials.
 6. “▲”this data for several samples of mixed test results, the actual data of one or several samples in mixed samples are likely more than the results, please be careful to use this data.

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ASTM F963-17 Section 4.3.5.2 - Soluble Heavy Metals content in substrate material

Method: With reference to ASTM F963-17 Section 8.3, analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Elements	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Conclusion
Limit for Modeling clay (mg/kg)	25	250	50	25	25	90	60	500	
Limit for Others (mg/kg)	25	1000	75	60	60	90	60	500	
RL (mg/kg)	2.5	5	5	5	5	5	5	5	
Material No.	Result (mg/kg)								
04	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL = Reporting Limit.

ASTM F963-17 - Mechanical and Physical Properties

Section	Testing Items	Assessment
		07 #
4	Safety requirements	
4.1	Material quality	PASS
4.3.7	Stuffing materials	NA
4.4	Electrical/thermal energy	NA
4.5	Sound producing toys	NA
4.6	Small objects	NA
4.6.1	Toys intended for children under 36 months of age	NA
4.6.2	Mouth actuated toys	NA
4.6.3	Toys intended for children under 36 months of age Mouth actuated toys	NA
4.7	Accessible edges	PASS
4.8	Projections	NA

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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 and elastics in toys	NA
4.15	Stability and over-load requirements	NA
4.16	Confined spaces	NA
4.17	Wheels, tires, and axles	NA
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	Teethers 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	Marble	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

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5	Labeling Requirement	
5.2	Age Grading labeling	NR*
5.3	Safety labeling requirements	NA
5.4	Aquatic toys	NA
5.5	Crib and playpen toys	NA
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	NA
5.12	Toy caps	NA
5.13	Art materials	NA
5.14	Electric toys	NA
5.15	Battery operated toys	NA
5.16	Promotional materials	NA
5.17	Magnets	NA
6	Instructional Literature	
6.1	Definition and description	NA
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
7	Producer's Marking	
7.1	Name of the producer or the distributor	NR*
	Address of the producer or the distributor	NR*
7.2	Battery powered ride on toys	NA
7.3	Toy chests	NA

Note: 1. NA = Not Applicable

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2. NR =Not Requested
3. "" = Per client's requirement, the packaging was not evaluated.
4. The name and address of the producer or the distributor shall be marked on the toy or the package.
5. "# " = Sample Receiving Date was Sep. 19, 2022.

The submitted samples were undergone the use and abuse tests in accordance with the Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations:

Testing Items	FHSA	Parameter
Drop Test	Section 1500.53(b)	4×3.0 ft
Torque Test	Section 1500.53(e)	4.0 inch ·lbf
Tension Test	Section 1500.53(f)	15 lbf

ASTM F963-17 Annex A5 - Flammability

Material No.	Burn Length(inch)	Burn Time(sec.)	Burn Rate(inch/sec.)	Conclusion
07 #	1.3	60	0.02	PASS

- Note:**
1. DNI = Did not ignite.
 2. IBE = Ignited but self-extinguished before burn-rate could be determined.
 3. a) If the burning speed of all samples is less than 0.10 in./s (2.5 mm/s), the test is accepted.
b) If the burning speed of all samples is greater than 0.10in./s (2.5mm/s), but less than 0.15in./s (3.75mm/s), it is accepted but in-depth investigation and research should be considered to take measures to improve performance Measures.
c) If the burning speed of one of the samples is greater than 0.15 in./s (3.75 mm/s), the rejection is measured.
 4. "# " = Sample Receiving Date was Sep. 19, 2022.

Remark:

This report is a revised document for Report No. LST22092099ENS1. Report No. LST22092099ENS1 is replaced and invalidated automatically from the approval date of this report.

End of Report

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