

Test Report

Report No.: NB2020063136

Date: June 24, 2020

Page:1/8

Applicant: SHENZHEN QIMENG TOYS FACTORY CO., LTD.

Address: 3F, NO. 4166 LIULIAN, PINGDI, LONGGANG, SHENZHEN, CHINA

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

Sample Name: stress ball
 Color: pink, blue, yellow, green, orange,purple
 Supplier: Shenzhen Qimeng Toys Factory
 Exported to: USA Country of Origin: China
 Product End Use: Squishy and stress Buyer: ZOMPERS LLC
 Age grading for testing: 3+ Label Age Grade: 3+
 Applicant's Specified Age Group for Testing: 3+

The following information were confirmed by the laboratory:

Testing Period: From June 22, 2020 to June 24, 2020
 Test Results: Please refer to next page(s)

Summary of test results

Test Requested	Conclusion
1 Mechanical Hazards Requirements -ASTM F963-17, Standard Consumer Safety Specification for Toy Safety	PASS
2 Flammability of Solids Requirement -ASTM F963-17,A5, Standard Consumer Safety Specification for Toy Safety	PASS
3 Total Lead Content in Substrate - ASTM F963-17, Section 4.3.5.2(2)(a)	PASS
4 Soluble Heavy Metals Content in Substrate - ASTM F963-17, Section 4.3.5.2(2)(b)	PASS
5 Total Lead Content in Substrate - United States Consumer Product Safety Improvement Act (CPSIA) Section 101(a)(2)	PASS
6 Phthalates Content in Children's Toys and Childcare Articles – Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 108 / 16 CFR part 1307	PASS

Remark: At request of the client, the ASTM F963-17 about labeling requirement was not evaluated at this submission.

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

Approved by:

Jum.

Manager



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Test Report

Report No.: NB2020063136

Date: June 24, 2020

Page:2/8

Test results:

Tested part(s) description:

Test Item(s)	Description	Location
I001	Dark purple soft plastic with transparent solid glue	Top of ball
I002	Orange soft plastic with transparent solid glue	Top of ball
I003	Rose red soft plastic with transparent solid glue	Top of ball
I004	Yellow soft plastic with transparent solid glue	Top of ball
I005	Green soft plastic with transparent solid glue	Top of ball
I006	Sky blue soft plastic with transparent solid glue	Top of ball
I007	Dark purple soft plastic	Ball
I008	Orange soft plastic	Ball
I009	Rose red soft plastic	Ball
I010	Yellow soft plastic	Ball
I011	Green soft plastic	Ball
I012	Sky blue soft plastic	Ball

1. Mechanical Hazards Requirements -ASTM F963-17, Standard Consumer Safety Specification for Toy Safety

Section	Requirement	Result
4	Safety requirements	
4.1	Material Quality	M
4.3.7	Stuffing Materials	M
4.4	Electrical/thermal energy	N/A
4.5	Sound-Producing Toys	N/A
4.6	Small Objects	N/A
4.7	Accessible Edges	M
4.8	Projections	N/A
4.9	Accessible Points	M
4.10	Wires and Rods	N/A
4.11	Nails and Fasteners	N/A
4.12	Plastic Film	N/A
4.13	Folding Mechanisms and Hinges	N/A
4.14	Cords, Straps and Elastics	N/A
4.15	Stability and Over-Load Requirements	N/A
4.16	Confined Spaces	N/A
4.17	Wheels, Tires, and Axles	N/A

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Test Report

Report No.: NB2020063136

Date: June 24, 2020

Page:3/8

Section	Requirement	Result
4.18	Holes,Clearances and Accessibility of Mechanisms	N/A
4.19	Simulated Protective Devices	N/A
4.20	Pacifiers	N/A
4.21	Projectile Toys	N/A
4.22	Teethers and Teething Toys	N/A
4.23	Rattles	N/A
4.24	Squeeze Toys	N/A
4.25	Battery-Operated Toys	N/A
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed and Beanbag-Type Toys	N/A
4.28	Stroller and carriage toys	N/A
4.29	Art materials	N/A
4.30	Toy Gun Marking	N/A
4.32	Certain Toys with Nearly Spherical Ends	N/A
4.34	Small Balls	N/A
4.35	Pompoms	N/A
4.36	Hemispheric-Shaped Objects	N/A
4.37	Yo Yo Elastic Tether Toys	N/A
4.38	Magnets	N/A
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A
4.40	Expanding Materials	N/A
4.41	Toy chests	N/A
5	Labeling Requirements	
5.1	Federal Government Requirements	NR
5.2	Age Grading Labeling	NR
5.3	Safety Labeling Requirements	NR
5.4	Aquatic Toys	NR
5.5	Crib and Playpen Toys	NR
5.6	Mobiles	NR
5.7	Stroller and Carriage Toys	NR
5.8	Toys Intended to be Assembled by an Adult	NR
5.9	Simulated Protective Devices	NR
5.10	Toys with Functional Sharp Edges or Points	NR
5.11	Small Objects, Small Balls, Marbles, and Balloons	NR
5.12	Toy Caps	NR
5.13	Art Materials	NR
5.14	Electric Toys	NR

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Test Report

Report No.: NB2020063136

Date: June 24, 2020

Page:4/8

Section	Requirement	Result
5.15	Battery operated toys (Toys with non-replaceable batteries)	NR
5.16	Promotional Materials	NR
5.17	Magnets	NR
6	Instructional Literature	
6.1	Definition and Description	NR
6.2	Crib and Playpen Toys	NR
6.3	Mobiles	NR
6.4	Toys Intended to be Assembled by and Adult	NR
6.5	Battery operated toys	NR
6.6	Battery powered ride-on toys	NR
6.7	Toys in Contact with Food	NR
6.8	Toy Chests	NR
7	Producer's Markings	
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	NR
7.3	Toy chests	NR

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

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
Compression Test	Section 1500.53(g)	30 lbf

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Test Report

Report No.: NB2020063136

Date: June 24, 2020

Page:5/8

2. Flammability of Solids Requirement -ASTM F963-17,A5, Standard Consumer Safety Specification for Toy Safety

Test Method: Federal Hazardous Substances Act (FHSA) 16 CFR 1500.44

Test Item(s)	Result	Requirement	Conclusion
I007	DNI	Burn rate should not be greater than 0.1 in/sec.	PASS
I008	DNI	Burn rate should not be greater than 0.1 in/sec.	PASS
I009	DNI	Burn rate should not be greater than 0.1 in/sec.	PASS
I010	DNI	Burn rate should not be greater than 0.1 in/sec.	PASS
I011	DNI	Burn rate should not be greater than 0.1 in/sec.	PASS
I012	DNI	Burn rate should not be greater than 0.1 in/sec.	PASS

- Note:**
- 1.DNI = Did not ignite.
 - 2.IBE = Ignited but self-extinguished before burn-rate could be determined.
 - 3.In accordance with the FHSA 16 CFR 1500.3 (C) (6) (vi), the burning rate should not be greater than 0.1 in/sec.
 - 4.The burn rate of all samples is greater than 0.1 in. /s (2.5 mm/s) but less than 0.15 in. /s (3.75 mm/s), accept and consider further investigation for action to improve performance.
 - 5.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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Test Report

Report No.: NB2020063136

Date: June 24, 2020

Page:6/8

3. Total Lead Content in substrate - ASTM F963-17, Section 4.3.5.2(2)(a)

Test Method: ASTM F963-17 Section 8.3.1, Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry or Atomic Absorption Spectrometry.

Limit	100 mg/kg	
Test Item(s)	Result (mg/kg)	Conclusion
I001+I002+I003	N.D.	PASS
I004+I005+I006	N.D.	PASS

Note: N.D.= Not Detected(<MDL)
mg/kg = milligram per kilogram = ppm = part per million
MDL= Detection Limit (mg/kg): 10
Results shown are of the total weight of mixed samples

4. Soluble Heavy Metals Content in Substrate - ASTM F963-17, Section 4.3.5.2(2)(b)

Test Method: ASTM F963-17, Section 8.3.5 (Excluding 8.3.5.5(3)), Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry.

Analyte	Result (mg/kg)						Limit (mg/kg)
	Test Item(s)						
	I001	I002	I003	I004	I005	I006	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	5	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	--

Note: N.D.= Not Detected(<MDL)
mg/kg = milligram per kilogram = ppm = part per million
MDL= Detection Limit (mg/kg): 5

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Test Report

Report No.: NB2020063136

Date: June 24, 2020

Page:7/8

5. Total Lead Content in Substrate - United States Consumer Product Safety Improvement Act (CPSIA) Section 101(a)(2)

Test Method: CPSC-CH-E1002-08.3, Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry or Atomic Absorption Spectrometry.

Limit	100 mg/kg	
Test Item(s)	Result (mg/kg)	Conclusion
I001+I002+I003	N.D.	PASS
I004+I005+I006	N.D.	PASS

Note: N.D.= Not Detected(<MDL)
 mg/kg = milligram per kilogram = ppm = part per million
 MDL= Detection Limit (mg/kg): 10
 Results shown are of the total weight of mixed samples

6. Phthalates Content in Children's Toys and Childcare Articles – Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 108 / 16 CFR part 1307

Test Method: CPSC-CH-C1001-09.4, Analyzed by Gas Chromatography-Mass Spectrometer.

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I001+I002+I003	I004+I005+I006
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	N.D.	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Note: N.D. = Not detected(<MDL) MDL= Detection Limit: 0.005%
 mg/kg = milligram per kilogram = ppm = part per million
 10000 mg/kg = 1 %
 Results shown are of the total weight of mixed samples

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Test Report

Report No.: NB2020063136

Date: June 24, 2020

Page:8/8

Samples photograph



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*** End of Report ***

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