



中国认可
国际互认
检测
TESTING
CNAS L5950



Test Report

No.: SPF24031384

Date: Feb. 26, 2024

Page 1 of 16

SHANTOU CITY CHENGHAI DISTRICT YIMA TOYS FACTORY
CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

The following samples were submitted and identified by/on behalf of client as:

Name of product/item: Toy series

Item No.: See the next page.

Labeled age grading: 3+

Age group applied in testing: 3+

Sample received date: Feb. 04, 2024

Testing period: From Feb. 04, 2024 to Feb. 21, 2024

Test conclusion:

Summary	Result
1	1.1 ASTM F963-17 Mechanical and Physical Properties
	1.2 ASTM F963-17 Flammability
	1.3 ASTM F963-17 Toxic Elements Test Clause 4.3.5.2-Heavy Metal in Substrate Materials
2	2.1 ASTM F963-23 Mechanical and Physical Properties
	2.2 ASTM F963-23 Flammability
	2.3 ASTM F963-23 Toxic Elements Test Clause 4.3.5.2-Heavy Metal in Substrate Materials

Tested by : Ava.
Chen WenHan, Ava

Inspected by : WenXia
Zhang WenXia, WenXia

Approved by : Jee
Zhang Feng, Jee
Lab Manager



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Test Report

No.: SPF24031384

Date: Feb. 26, 2024

Page 2 of 16

Item No.: YM5665, YM5775, YM001, YM002, YM881, YM882, YM883, YM884, YM131, YM132, YM823, YM824, YM825, YM826, YM2202, YM2202A, YM135, YM136, YM172, YM173, YM127, YM128, YM176, YM661, YM662, YM771, YM772, 772-1, 771-1, YM995, YM996, YM885, YM886, YM2112, YM3113, YM3223, YM816, YM815, YM133, YM134, YM887, YM888, YM817, YM818, YM6446, YM6556, YM6776, YM6886, YM6116, YM6996, YM112, YM151, YM152, YM153, YM182, YM183, YM175, YM991, YM992, YM157, YM158, YM159, YM161, YM168, YM169, YM162, YM163, YM164, YM165, YM166, YM167, YM171, YM191, YM124, YM381, YM382, YM383, YM177, YM178, YM993, YM811, YM811A, YM812, YM813, YM827, YM828, YM831, YM2021-6, YM2021-7, YM2021-6A, YM2021-7A, YM2201, YM2201A, YM2203, YM2203A, YM832, YM2021-1, YM2021-2, YM2021-3, YM2021-5, YM2204, YM2021-10, YM2021-10A, YM2021-11, YM2021-8, YM2021-12, YM2021-13, YM2205, YM2205A, YM2206, YM2206A, YM2207, YM2207A, YM2208, YM2208A, YM2209, YM2209A, YM2210, YM2210A, YM2212, YM2212A, YM2213, YM2213A, YM2214, YM2215, YM2216, YM2216A, YM2217A, YM2217, YM2218, YM2219, YM2220, YM179, YM2221, YM2221A, YM2222, YM2222A, YM2223, YM2223A, YM2224, YM2224A, YM2225, YM2225A, YM2226, YM2226A, YM2227, YM2227A, YM2301, YM2301A, YM2302, YM2302A, YM2303, YM2303A, YM2304, YM2305, YM-1, YM-2, YM-3, YM-5, YM-6, YM-7, YM-8, YM-9, YM-10, YM-11, YM-12, YM-13, YM-15, YM-16, YM-17, YM-18, YM-19, YM-20, YM-21, YM-22, YM-23, YM-25, YM-26, YM-27, YM-28, YM-29, YM-30, YM-31, YM-32, YM-33, YM-35, YM-36, YM-37, YM-38, YM-39, YM-50, YM-51, YM-52, YM-53, YM-55, YM-56, YM-57, YM-58, YM-59, YM-60, YM-61, YM-62, YM-63, YM-65, YM-66, YM-67, YM-68, YM-69, YM-70, YM-71, YM-72, YM-73, YM-75, YM-76, YM-77, YM-78, YM-79, YM-80, YM-81, YM-82, YM-83, YM-85, YM-86, YM-87, YM-88, YM-89, YM-90, YM-91, YM-92, YM-93, YM-95, YM-96, YM-97, YM-98, YM-99, YM-100, YM-101, YM-102, YM-103, YM-105, YM-106, YM-107, YM-108, YM-109, YM-110, YM-111, YM-112, YM-113, YM-115, YM-116, YM-117, YM-118, YM-119, YM-120, YM-121, YM-122, YM-123, YM-125, YM-126, YM-127, YM-128, YM-129, YM-130, YM-131, YM-132, YM-133, YM-134, YM-135, YM-136, YM-137, YM-138, YM-139, YM-150, YM-151, YM-152, YM-153, YM-155, YM-156, YM-157, YM-158, YM-159, YM-160, YM2306, YM2306A.

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Test Report

No.: SPF24031384

Date: Feb. 26, 2024

Page 3 of 16

1.1 Mechanical and Physical Properties:

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:

Test	FHSA	Parameter
Drop test	Section 1500.53 (b)	0 to 18M: 10×4.5 ft ± 0.5 in. over 18M to 36M: 4×3.0 ft ± 0.5 in. over 36M to 96M: 4×3.0 ft ± 0.5 in.
Torque test	Section 1500.53 (e)	0 to 18M: 2 ± 0.2 in. ·lbf over 18M to 36M: 3 ± 0.2 in. ·lbf over 36M to 96M: 4 ± 0.2 in. ·lbf
Tension test	Section 1500.53 (f)	0 to 18M: 10 ± 0.5 lbf over 18M to 36M: 15 ± 0.5 lbf over 36M to 96M: 15 ± 0.5 lbf
Compression test	Section 1500.53 (g)	0 to 18M: 20 ± 0.5 lbf over 18M to 36M: 25 ± 0.5 lbf over 36M to 96M: 30 ± 0.5 lbf

Section	Description	Result
4.1	Material quality (by visual assessment)	P
4.5	Sound-producing toys.....	P
4.6	Small objects	P
4.7	Accessible edges	P
4.8	Projections	P
4.9	Accessible points	P
4.10	Wires or Rods	NA
4.11	Nails and Fastens	NA
4.12	Plastic Film	P
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	P
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

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Test Report

No.: SPF24031384

Date: Feb. 26, 2024

Page 4 of 16

4.24	Squeeze Toys	NA
4.25	Battery – Operated Toys	NC
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
4.30	Toys 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	P
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding Materials.....	NA
4.41	Toy Chests.....	NA
5	Labeling Requirement	
5.1	Federal Government Requirements	NA
5.2	Age Grading Labeling.....	P
5.3	Safety labeling requirements.....	P
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.....	P
5.12	Toys Caps	NA
5.14	Electric Toys	NA
5.15	Battery - Operated Toys	NA
5.16	Promotional Materials	P
5.17	Magnets	NA
6	Instructional Literature	
6.1	Definition and Description	NA
6.2	Crib and Playpen Toys	NA
6.3	Mobiles	NA

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Test Report

No.: SPF24031384

Date: Feb. 26, 2024

Page 5 of 16

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	Producer's marking.....	P
	Producer's marking – Address on toy or package	
	(Remark: It is drawn to your attention that either a principal component of a toy or the package of a toy shall be marked with the name and address of the producer or the distributor.)	
7.2	Battery – Powered Ride on Toys	NA
7.3	Toy Chests.....	NA

Note:

P = Pass; NA = Not applicable; NC = Not conducted; F = Fail.

(1) The submitted samples were undergone the tests in accordance with section 8.5 through section 8.19 and 8.21 through 8.30 on normal use, abuse and specific tests for different types of toys whichever is applicable.

1.2 Flammability:

Test of materials other than textile materials.

As per section 4.2 of the ASTM standard consumer safety specification on toy safety F963-17.

Sample	Burn rate (Inch/Sec)	Limit (Inch/Sec)	Result
Paperboard	0.06	0.10	P

Note:

P = Pass; F = Fail.

(1) All styles of the submitted toy samples and its accessories were tested, the above result only showed the most severe burn rate.

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Test Report

No.: SPF24031384

Date: Feb. 26, 2024

Page 6 of 16

1.3 Toxic Elements analysis:

With reference to 8.3 in ASTM F963-17 and CPSC-CH-E1002-08.3, by Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES) analysis.

Non-modelling clay:

Sample No. Item(s)	Result (mg/kg)					Report limit (mg/kg)	Limit (mg/kg)
	1	2	3	4	5		
Lead (Pb)	ND	ND	ND	ND	ND	10	100
Soluble Lead (Pb)	ND	ND	ND	ND	ND	10	90
Soluble Cadmium (Cd)	ND	ND	ND	ND	ND	5	75
Soluble Chromium (Cr)	ND	ND	ND	ND	ND	5	60
Soluble Mercury (Hg)	ND	ND	ND	ND	ND	5	60
Soluble Arsenic (As)	ND	ND	ND	ND	ND	5	25
Soluble Selenium (Se)	ND	ND	ND	ND	ND	10	500
Soluble Antimony (Sb)	ND	ND	ND	ND	ND	10	60
Soluble Barium (Ba)	ND	ND	ND	ND	ND	100	1000

Tested component(s):

Code	Specimen name	Code	Specimen name
1	Green plastic	4	Pink plastic
2	Blue plastic	5	White plastic
3	Purple plastic	/	/

Note:

ND = Not detected (less than report limit);

mg/kg = ppm = part per million.

(1) 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.

(2) Elements Migration results of eight elements shown are of the adjusted analytical results.

Remark: *The test method is not authorized by CNAS.

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Test Report

No.: SPF24031384

Date: Feb. 26, 2024

Page 7 of 16

2.1 Mechanical and Physical Properties:

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:

Test	FHSA	Parameter
Drop test	Section 1500.53 (b)	0 to 18M: 10 × 4.5 ft ± 0.5 in. over 18M to 36M: 4 × 3.0 ft ± 0.5 in. over 36M to 96M: 4 × 3.0 ft ± 0.5 in.
Torque test	Section 1500.53 (e)	0 to 18M: 2 ± 0.2 in. ·lbf over 18M to 36M: 3 ± 0.2 in. ·lbf over 36M to 96M: 4 ± 0.2 in. ·lbf
Tension test	Section 1500.53 (f)	0 to 18M: 10 ± 0.5 lbf over 18M to 36M: 15 ± 0.5 lbf over 36M to 96M: 15 ± 0.5 lbf
Compression test	Section 1500.53 (g)	0 to 18M: 20 ± 0.5 lbf over 18M to 36M: 25 ± 0.5 lbf over 36M to 96M: 30 ± 0.5 lbf

Section	Description	Result
4.1	Material quality (by visual assessment)	P
4.5	Sound-producing toys.....	P
4.6	Small objects	P
4.7	Accessible edges	P
4.8	Projections	P
4.9	Accessible points	P
4.10	Wires or Rods	NA
4.11	Nails and Fastens	NA
4.12	Plastic Film	P
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	P
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

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Test Report

No.: SPF24031384

Date: Feb. 26, 2024

Page 8 of 16

4.24	Squeeze Toys	NA
4.25	Battery – Operated Toys	P ^[1]
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
4.30	Toys 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	P
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding Materials.....	NA
4.41	Toy Chests.....	NA
5	Labeling Requirement	
5.1	Federal Government Requirements	NA
5.2	Age Grading Labeling.....	P
5.3	Safety labeling requirements.....	P
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.....	P
5.13	Electric Toys	P
5.14	Battery - Operated Toys	NA
5.15	Promotional Materials	P
5.16	Magnets	NA
6	Instructional Literature	
6.1	Definition and Description	P
6.2	Crib and Playpen Toys	NA
6.3	Mobiles	NA
6.4	Toys Intended to be Assembled By an Adult	NA

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Test Report

No.: SPF24031384

Date: Feb. 26, 2024

Page 9 of 16

6.5	Battery – Operated Toys	P ^[1]
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)	NA
7	Producer's marking	
7.1	Producer's marking.....	P
	Producer's marking – Address on toy or package	
	(Remark: It is drawn to your attention that either a principal component of a toy or the package of a toy shall be marked with the name and address of the producer or the distributor.)	
7.2	Battery – Powered Ride on Toys	NA
7.3	Toy Chests.....	NA

Note:

P = Pass; NA = Not applicable; NC = Not conducted; F = Fail.

(1) The submitted samples were undergone the tests in accordance with section 8.5 through section 8.19 and 8.21 through 8.30 on normal use, abuse and specific tests for different types of toys whichever is applicable.

(2) "[1]": This test was only conducted on specific product (3 x 1.5V "AA" size batteries for Projector) as per applicant's request.

2.2 Flammability:

Test of materials other than textile materials.

As per section 4.2 of the ASTM standard consumer safety specification on toy safety F963-23.

Sample	Burn rate (Inch/Sec)	Limit (Inch/Sec)	Result
Paperboard	0.06	0.10	P

Note:

P = Pass; F = Fail.

(1) All styles of the submitted toy samples and its accessories were tested, the above result only showed the most severe burn rate.

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Test Report

No.: SPF24031384

Date: Feb. 26, 2024

Page 10 of 16

2.3 Toxic Elements analysis:

With reference to 8.3 in ASTM F963-23 and CPSC-CH-E1002-08.3, by Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES) analysis.

Non-modelling clay:

Sample No. Item(s)	Result (mg/kg)					Report limit (mg/kg)	Limit (mg/kg)
	1	2	3	4	5		
Lead (Pb)	ND	ND	ND	ND	ND	10	100
Soluble Lead (Pb)	ND	ND	ND	ND	ND	10	90
Soluble Cadmium (Cd)	ND	ND	ND	ND	ND	5	75
Soluble Chromium (Cr)	ND	ND	ND	ND	ND	5	60
Soluble Mercury (Hg)	ND	ND	ND	ND	ND	5	60
Soluble Arsenic (As)	ND	ND	ND	ND	ND	5	25
Soluble Selenium (Se)	ND	ND	ND	ND	ND	10	500
Soluble Antimony (Sb)	ND	ND	ND	ND	ND	10	60
Soluble Barium (Ba)	ND	ND	ND	ND	ND	100	1000

Tested component(s):

Code	Specimen name	Code	Specimen name
1	Green plastic	4	Pink plastic
2	Blue plastic	5	White plastic
3	Purple plastic	/	/

Note:

ND = Not detected (less than report limit);

mg/kg = ppm = part per million.

(1) 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.

(2) Elements Migration results of eight elements shown are of the adjusted analytical results.

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Test Report

No.: SPF24031384

Date: Feb. 26, 2024

Page 11 of 16

Sample photo(s):



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Page 12 of 16



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Test Report

No.: SPF24031384

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Page 13 of 16



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Page 14 of 16



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Test Report

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Page 15 of 16



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Test Report

No.: SPF24031384

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Page 16 of 16

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