



中国认可  
国际互认  
检测  
TESTING  
CNAS L5950



## Test Report

No.: SPF24031384

Date: Feb. 26, 2024

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

Tested by : Ava.

Chen WenHan, Ava

Inspected by : Wendy

Zhang WenXia, Wendy

Approved by : Jee

Zhang Feng, Jee  
Lab Manager

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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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### 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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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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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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### 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
1	Green plastic
2	Blue plastic
3	Purple plastic

Code	Specimen name
4	Pink plastic
5	White 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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### 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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4.24	Squeeze Toys .....	NA
4.25	Battery – Operated Toys .....	P <sup>[1]</sup>
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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6.5	Battery – Operated Toys .....	P <sup>[1]</sup>
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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### 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
1	Green plastic
2	Blue plastic
3	Purple plastic

Code	Specimen name
4	Pink plastic
5	White 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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Sample photo(s):



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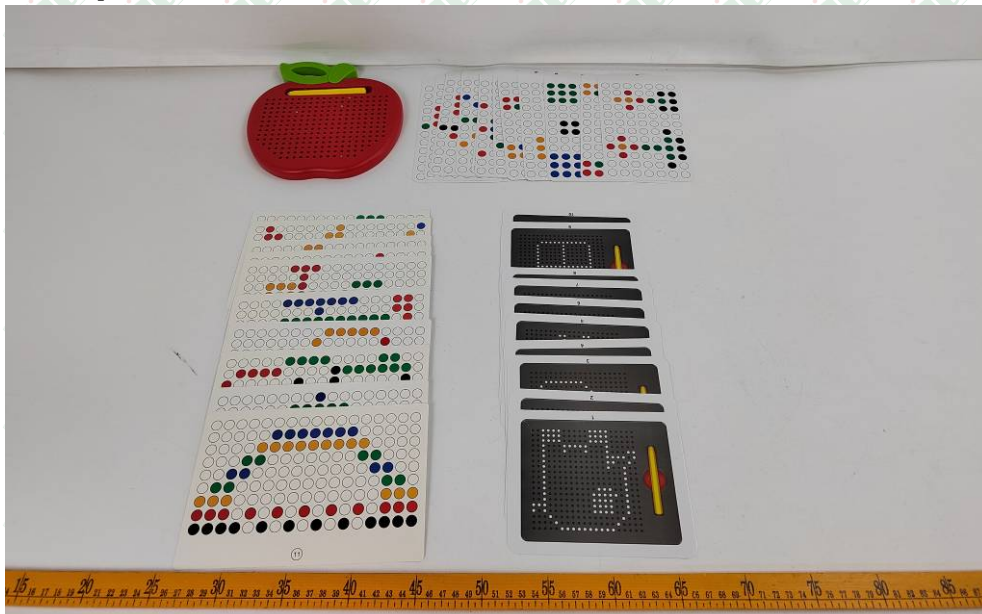


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