



中国认可
国际互认
检测
TESTING
CNAS L5950



Test Report

No.:SPF250101480R1

Date:Jul 22, 2025

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Shantou Chenghai DeFa Plastic Toys Industry Co., Ltd.

CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

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

Sample Name: Toy series
 Item No.: See next page
 Requested age grading: 3+
 Age group applied in testing: 3+
 Sample received date: Apr 02, 2025; Jul 16, 2025
 Testing period: From Apr 02, 2025 to Apr 15, 2025; Jul 16, 2025 to Jul 21, 2025

Note: This report is updated based on the report No.SPF250101480.

Test conclusion:

Summary	Result
CPSIA Section 103-Tracking labels for children's products *	Pass
ASTM F963-23 Mechanical and Physical Properties	Pass
ASTM F963-23 Flammability	Pass
ASTM F963-23 Toxic Elements Test Clause 4.3.5.1-Heavy Elements in Paint/Similar Surface Coating Materials	Pass
ASTM F963-23 Toxic Elements Test Clause 4.3.5.2-Heavy Metal in Substrate Materials	Pass
ASTM F963-23 Clause 4.3.8-Phthalate Content	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.	591, 591A, 880, 880B, 880A, 6003, 861B, 861A, 6009, 6009A, 6007, 6007A, 6010, 6010A, 6015, 6015A, 6018, 6018A, 6019, 6019A, 8802, 6020, 6020A, 6021, 6021A, 6022, 6022A, 6025, 6025A, 6026, 6026A, 6028, 6028A, 6029, 6029A, 6030, 6030A, 6031, 6031A, 6032, 6032A, 6033, 6033A, 6035, 6035A, 6036, 6036A, 6038, 6038A, 6039, 6039A, 6050, 6050A, 6051, 6051A, 6052, 6052A, 6053, 6053A, 6055, 6055A, 6056, 6056A, 6058, 6058A, 6059, 6059A, 6060, 6060A, 6061, 6161A, 6062, 6062A, 8200, 8200A, 8201, 8201A, 8202, 8202A, 8203, 8203A, 8205, 8205A, 8216, 8216A, 8216-1, 8216A-1, 8217, 8217A, 8218, 8218A, 8219, 8219A, VA80021-BLU, VA80021-BLK, VA90024-GRD, VA90024-NOC, VA90024-PNK, VA90019-NOC, VA90020-PUR, VA90020-PNK, VA90014, VA90049, VA90020, 8212, 8212A, 5501, 5501A, 5502, 5502A, 5503, 5503A, 5505, 5505A, 5506, 5506A, 5508, 5508A, 5509, 5509A, 5510, 5510A, 855, 855A, 6016, 6016A, 8220, 8220A, 8221, 8221A, 8222, 8222A, 8223, 8223A, 8225, 8225A, 8226, 8226A, 8228, 8228A, 8229, 8229A, 8206, 8206A, 8211, 8211A, 8212, 8212A, 8213, 8213A, 8215, 8215A, 8207, 8207A, 8208, 8208A, 8209, 8209A, 6063, 6063A, 6065, 6065A, 6066, 6066A, 8230, 8230A, 8231, 8231A, 8232, 8232A, 8233, 8233A
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1.CPSIA Section 103-Tracking labels for children's products

Section	Description	Result
103 (a)	IN GENERAL	P
103 (b)	LABEL INFORMATION	P
103 (c)	ADVERTISING, LABELING, AND PACKAGING REPRESENTATION	P
103 (d)	REQUIREMENT FOR ADVERTISEMENTS	P

Note:

P = Pass; F= Fail.

(1) The test items and samples were specified by the client.

Remark: Test item(s) with "*"is (are) not accredited by CNAS.

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2.ASTM F963 -23 Standard Consumer Safety Specification for Toy Safety

As specified in ASTM F963-23 Standard Consumer Safety Specification on Toys Safety.

Clauses relevant to the item:

Section	Description	Result
4.1	Material quality (by visual assessment)	P
4.2	Flammability Test	P (See Result Page)
4.3	Toxicology	---
4.3.5	Heavy Elements	---
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials	P (See Result Page)
4.3.5.2	Heavy Metal in Substrate Materials	P (See Result Page)
4.3.8	Phthalates	P (See Result Page)
4.5	Sound-producing toys	P
4.6	Small objects	P
4.6.1	Toys that are intended for children under 36 months	NA
4.6.2	Mouth-actuated Toys	NA
4.6.3	Labeling requirements	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	P
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

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Section	Description	Result
4.17	Wheels, tires and axles	P
4.18	Holes, Clearance and Accessibility of mechanisms	P
4.19	Simulated Protective Devices	NA
4.20	Pacifiers	NA
4.21	Projectile Toys	P
4.22	Teethers and Teething Toys	NA
4.23	Rattles	NA
4.24	Squeeze Toys	NA
4.25	Battery - Operated Toys	P
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	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	NA
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding Materials	NA
4.41	Toy Chests	NA
5	Labeling Requirement	P
5.1	Federal Government Requirements	P

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Section	Description	Result
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	Art Materials	NA
5.13	Electric Toys	P
5.14	Battery - Operated Toys	NA
5.15	Promotional Materials	P
5.16	Magnets	NA
6	Instructional Literature	P
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
6.5	Battery - Operated Toys	P
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	P

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Section	Description	Result
7.1	Producer's marking 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.)	P
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) Section 4.25, 6.5- This test was only conducted on specific product (3 × 1.5V “AA” size batteries for Robot) as per applicant's request.



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3.ASTM F963-23 Flammability

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
Sword	0.02	0.1	P

Note:

P = Pass; DNI = Did Not Ignite; IBE = Ignite But Self-Extinguished; 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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4.Toxic Elements analysis - Non-modelling clay - Coating

ASTM F963-23, Clause 4.3.5.1 – Heavy Elements in Paint/Similar Surface Coating Materials

With reference to 8.3 in ASTM F963-23 and CPSC-CH-E1003-09.1, by Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES) analysis.

Sample No. Item(s)	Result(mg/kg)	Report limit (mg/kg)	Limit (mg/kg)
	1		
Lead (Pb)	ND	10	90
Soluble Lead (Pb)	ND	10	90
Soluble Cadmium (Cd)	ND	5	75
Soluble Chromium (Cr)	ND	5	60
Soluble Mercury (Hg)	ND	5	60
Soluble Arsenic (As)	ND	5	25
Soluble Selenium (Se)	ND	10	500
Soluble Antimony (Sb)	ND	10	60
Soluble Barium (Ba)	ND	100	1000
Mass of trace amount (mg)	48.2	---	---

Note:

ND = Not detected (less than report limit);

mg/kg = ppm = part per million.

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

(2) 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.

(3) Migration results: The toy material samples with sample weight less than 100 mg were assumed to be 100 mg in calculation. Actual weight of sample(s) used for analysis which are less than 100 mg.

Tested component(s):

Code Specimen name

1 Red coating

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5.Toxic Elements analysis - Non-modelling clay

ASTM F963-23, Clause 4.3.5.2 – Heavy Elements in Substrate Materials

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.

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

Note:

ND = Not detected (less than report limit);

mg/kg = ppm = part per million.

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

(2) 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.

Tested component(s):

Code	Specimen name
1	Translucent plastic
2	Green translucent plastic
3	Flesh color plastic
4	Transparent plastic

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6.ASTM F963-23 Clause 4.3.8 Phthalates(PAEs) analysis

With reference to CPSC-CH-C1001-09.4, by Gas Chromatography-Mass Spectrometer (GC-MS) analysis.

Sample No. Item(s)	CAS No.	Result(mg/kg)	Report limit (mg/kg)	Limit (mg/kg)
		1		
Dibutyl phthalate (DBP)	84-74-2	ND	50	1000
Benzylbutyl phthalate (BBP)	85-68-7	ND	50	1000
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	50	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	50	1000
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	50	1000
Di-n-hexyl phthalate (DHEXP)	84-75-3	ND	50	1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	50	1000
Di-'isononyl' phthalate (DINP)	28553-12-0, 68515-48-0	ND	100	1000

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) Mixed test has been performed and the result(s) is (are) calculated using the total sample weight.

Tested component(s):

Code Specimen name

1 Translucent plastic + Green translucent plastic + Flesh color plastic

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Sample Photo(s):



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