UONE

Test Report

Report No.: U09002230214112E **Query Password: QW1256** **Date: Feb. 20, 2023** **Page 1 of 16**

Applicant: HONG KONG JAMES TOYS CO.,LTD

Contact information: ROOM 101A 1/F GENPLAS INDUSTRIAL BUILDING 56 HOI YUEN ROAD KWUN TONG KL

The following sample(s) was (were) submitted and identified by client as:

Sample Description	:	TOYS SERIES
Item No.	:	Please refer to next page(s).
Packaging Provided	:	/
Labeled Age Grading	:	3+
Requested Age Grading	:	3+
Age Group Applied in Testing	:	3+
Received Date	:	Feb. 14, 2023
Testing Period	:	From Feb. 14, 2023 to Feb. 20, 2023
Test Request	:	Please refer to next page(s).
Test Result(s)	:	Please refer to next page(s).

Shen Zhen UONE Test Co., LTD.

Prepared by	Checked by	Approved by
Thea	Marcia	Lewis
Thea Ye	Marcia Deng	Lewis Liu

SHENZHEN UONE TEST CO.,LTD. UONE TESTING SERVICE

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

UONE

Test Report

Summary of Test Results(Tested parts are required partially by client):

TEST REQUEST		CONCLUSION
ASTM F963-17 American Standard Consumer Safety Specification for Toy Safety		
(1)	Mechanical and Physical Properties	**PASS**
(2)	Flammability	**PASS**
(3)	Battery-Operated Toys for Section 4.25	**PASS**
(4)	Total Lead content in paint and surface coating	**PASS**
(5)	Total Lead content in substrate material	**PASS**
(6)	Soluble Heavy Metals content in paint and surface coating	**PASS**
(7)	Soluble Heavy Metals content in substrate material	**PASS**
U.S. Federal Hazardous Substances Act (FHSA) CPSC		
(8)	Safety Aspects Related to Mechanical and Physical Properties	**PASS**
(9)	CPSC 16 CFR 1500.44 - Flammability of Solids	**PASS**
(10)	CPSC 16 CFR 1303 - Total Lead (Pb) content	**PASS**

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

Item No.:
MT3013, MT3015, MT3028, MT3029, MT3030, MT3031, MT3032, MT3033, MT3034, MT3000, MT3001, MT3002, MT3003, MT3004, MT3005, MT3006, MT3007, MT3008, MT3009, MT3010, MT3011, MT3012, MT3013, MT3014, MT3015, MT3016, MT3017, MT3018, MT3019, MT3020, MT3021, MT3022, MT3023, MT3024, MT3025, MT3026, MT3027, MT3028, MT3029, MT3030, MT3031, MT3032, MT3033, MT3034, MT3035, MT3036, MT3037, MT3038, MT3039, MT3040, MT3041, MT3042, MT3043, MT3044, MT3045, MT3046, MT3047, MT3048, MT3049, MT3050, MT3051, MT3052, MT3053, MT3054, MT3055, MT3056, MT3057, MT3058, MT3059, MT3060, MT3061, MT3062, MT3063, MT3064, MT3065, MT3066, MT3067, MT3068, MT3069, MT3070, MT3071, MT3072, MT3073, MT3074, MT3075, MT3076, MT3077, MT3078, MT3079, MT3080, MT3081, MT3082, MT3083, MT3084, MT3085, 778-1, 778-2, 778-3, 778-4, 778-5, 778-6, 778-7, 778-8, 778-9, 778-10, 778-11, 778-12, 778-13, 778-14, 778-15, 778-16, 778-17, 778-18, 778-19, 778-20, 778-21, 778-22, 778-23, 778-24, 778-25, 778-26, 778-27, 778-28, 778-29, 778-30, 778-31, 778-32, 778-33, 778-34, 778-35, 778-36, 778-37, 778-38, 778-39, 778-40, 778-41, 778-42, 778-43, 778-44, 778-45, 778-46, 778-47, 778-48, 778-49, 778-50, 778-51, 778-52, 778-53, 778-54, 778-55, 778-56, 778-57, 778-58, 778-59, 778-60, 778-61, 778-62, 778-63, 778-64, 778-65, 778-66, 778-67, 778-68, 778-69, 778-70, 778-71, 778-72, 778-73, 778-74, 778-75, 778-76, 778-77, 778-78, 778-79, 778-80, 778-81, 778-82, 778-83, 778-84, 778-85, 778-86, 778-87, 778-88, 778-89, 778-90, 778-91, 778-92, 778-93, 778-94, 778-95, 778-96, 778-97, 778-98, 778-99

Test Material(s) List

Material No.	Description	Remark
1	White coating	/
2	Orange plastic	/
3	Black plastic	/
4	Grey plastic	/
5	Navy blue plastic	/
6	Yellow plastic	/
7	Beige plastic	/
8	Transparent plastic	/
9	Transparent green plastic	/
10	Black elastic band	/

Test Result(s):

(1) Mechanical and Physical Properties – ASTM F963-17

Section	Test Item	Assessment
4.1	Material Quality	PASS
4.3.7	Stuffing Materials	NA
4.4	Electrical/Thermal Energy*	NA
4.5	Sound-Producing Toys	PASS
4.6	Small Objects	PASS
4.6.1	Toys that are intended for children under 36 months of age	NA
4.6.2	Mouth-Actuated Toys*	NA
4.6.3	Toys and games that are intended for use by children who are at least three years old but less than six years of age	PASS
4.7	Accessible Edges	PASS
4.8	Projections	NA
4.9	Accessible Points	PASS
4.10	Wires or Rods	NA
4.11	Nails and Fasteners	PASS
4.12	Plastic film	PASS
4.13	Folding Mechanisms and Hinges	NA
4.14	Cords ,straps, and Elastics	NA
4.15	Stability and Over-Load Requirements*	NA
4.16	Confined Spaces	NA
4.17	Wheels, Tires and Axles <36M	NA
4.18	Holes, Clearance, and Accessibility of Mechanisms	PASS
4.19	Simulated Protective Devices	PASS
4.20	Pacifiers	NA
4.21	Projectiles Toys	NA
4.22	Teethers and Teething Toys	NA
4.23	Rattles	NA

Section	Test Item	Assessment
4.24	Squeeze 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 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	Safety Labeling Requirements	
5.1	Federal Government Requirements	PASS
5.2	Age Grading Labeling	PASS
5.3	Safety Labeling Requirements	PASS
5.4	Aquatic Toys	NA
5.5	Crib and Playpen Toys	NA
5.5.1	Age Grading	NA
5.5.2	Safety Labeling	NA
5.6	Mobiles	NA
5.7	Stroller and Carriage Toys	NA

Section	Test Item	Assessment
5.8	Toys Intended to be Assembled by an Adult	NA
5.9	Simulated Protective Devices	PASS
5.10	Toys with Functional Sharp Edges and Sharp Points (4-8yrs)	NA
5.11	Small Objects, Small Balls, Marbles, and Balloons	PASS
5.12	Toy Caps	NA
5.13	Art Materials	NA
5.14	Electric Toys	NA
5.16	Promotional Materials	PASS
5.17	Magnets	NA
6	Instructional literature	
6.1	Definition and Description	PASS
6.2	Crib and Playpen Toys	NA
6.3	Mobiles	NA
6.4	Toys Intended to be Assembled by an Adult	NA
6.7	Toys in Contact with Food	NA
6.8	Toy Chests	NA
7	Producer's Markings	
7.1	Producer's Markings	PASS
7.3	Toy Chests	NA
8.5	Normal Use Testing	PASS
8.5.1	Washable Test	NA
8.7	Impact Test	PASS
8.8	Torque Test	PASS
8.9	Tension Test	PASS
8.10	Compression Test	NA
8.11	Test for Tire Removal and snap-in wheel and axle assembly removal	NA
8.12	Flexure Test	NA

Section	Test Item	Assessment
8.13	Test for Mouth-Actuated Toys and Mouth-Actuated Projectile Toys*	NA
8.14	Projectiles	NA
8.15	Test for Stability of Ride-on Toys or Toy Seats*	NA
8.16	Tension Test for Pompoms	NA
8.20	Tests for Toys Which Produce Noise	PASS
8.21	Dynamic Strength Test for Wheeled Ride-on Toys*	NA
8.22	Plastic Film Thickness	PASS
8.23	Test for Loops and Cords	NA
8.24	Yoyo Elastic Tether Toy Test Methods*	NA
8.25	Magnet Test Methods	NA
8.26	Test Methods for Locking Mechanisms or Other Means*	NA
8.27	Test for Toy Chest Lids and Closures*	NA
8.28	Test for Overload of Ride-on Toys and Toy Seats	NA
8.29	Stuffing Materials Evaluation	NA
8.30	Expanding Materials Test Method	NA

Remark: NA = Not Applicable.
* = This Clause was not got CNAS accreditation.

(2) Flammability – ASTM F963-17 Section 4.2

Section	Test Item	Assessment
4.2	Flammability	PASS See Note

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

Note: Flammability of Solids and Soft Toys – ASTM F963-17(A5)

Sample	Burn Rate (in./sec.)	Limit (in./sec.)
Toy	0.02	0.1

Remark: 1. All styles of submitted sample(s) (and its accessories) was/were tested, the above result only showed the most severe burn rate.

(3) Battery-Operated Toys - ASTM F963-17 Section 4.25

Power Source: **3** x **1.5** V, AA replaceable
2 x 1.5 V AA replaceable

Section	Test Item	Assessment
4.25	Battery-operated toys	PASS
4.25.1	Battery information marking in battery compartment	PASS
4.25.1.1	Label for non-replaceable batteries	NA
4.25.2	Nominal voltage between any two accessible points not exceed 24 V	PASS
4.25.3	Designed to prevent charge any non-rechargeable battery	PASS
4.25.4	Toys intended for children less than 3 years old,all batteries not be accessed before or after foreseeable abuse testing	NA
4.25.5	Small batteries not be accessed before or after foreseeable abuse testing	NA
4.25.6	Isolation of batteries of different type or capacities	PASS
4.25.7	Temperature on battery surface not exceeding 71℃	PASS
4.25.7.1	Battery operated toys during normal use conditions	PASS
4.25.7.2	Lock external moving parts of toy	PASS
4.25.8	No condition occurred that cause battery overheat or present a combustion hazard	PASS
4.25.8.1	Temperature on rechargeable lithium batteries during normal use charging and any discharging of the battery	NA
4.25.9	Instruction requirement	PASS
4.25.10*	Battery-powered ride on toys	NA
4.25.11*	Toys that Contain Secondary Cells or Secondary Batteries	NA

Section	Test Item	Assessment
5.15	No-replaceable batteries	NA
5.15.1	Instruction for Battery-powered ride on toys	NA
5.15.2	Instruction for button or coin cell batteries	NA
6.5	Instruction on safe battery usage	PASS
6.6	Battery Powered Ride-on Toys	NA
8.17	Stalled Motor Test for Battery-operated Toys	PASS
8.19*	Tests for Toys that Contain Secondary Cells or Batteries*	NA

Remark: NA = Not Applicable.

"*"= The Test Item(s) was(were) not got CNAS accreditation.

Clause 4.25.7 Temperature on battery surface			P
Location	Maximum temperature(℃)		Limited (℃)
	Normal Use	stalled motor	
Ambient temperature	22.0	22.2	--
Battery surface（drill）	39.6	44.8	71
Battery surface（saw）	43.2	50.1	71

(4) Total Lead content in paint and surface coating - ASTM F963-17 Section 4.3.5.1

Test Method: With reference to ASTM F963-17 Section 8.3.1, was analyzed by Atomic Absorption Spectrometer (AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Material No.	MDL (mg/kg)	Limit (mg/kg)	Result (mg/kg)	Conclusion
1	10	90	N.D.	PASS

Note:
1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< MDL).
3. MDL = method detection limit.

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

Test Method: With reference to ASTM F963-17 Section 8.3.1, was analyzed by Atomic Absorption Spectrometer (AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Material No.	MDL (mg/kg)	Limit (mg/kg)	Result (mg/kg)	Conclusion
2	10	100	N.D.	PASS
3	10	100	N.D.	PASS
4	10	100	N.D.	PASS
5	10	100	N.D.	PASS
6	10	100	N.D.	PASS
7	10	100	N.D.	PASS
8	10	100	N.D.	PASS
9	10	100	N.D.	PASS
10	10	100	N.D.	PASS

Note:
1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< MDL).
3. MDL = method detection limit.

(6) Soluble Heavy Metals content in paint and surface coating - ASTM F963-17 Section 4.3.5.1

Test Method: With reference to ASTM F963-17 Section 8.3.2 to Section 8.3.5, was analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Elements	Sb	As	Ba	Cd	Cr	Pb	Hg	Se	Conclusion
Limit (mg/kg)	60	25	1000	75	60	90	60	500	
MDL (mg/kg)	5	2.5	5	5	5	5	5	5	
Material No.	Result (mg/kg)								
1	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 (< MDL).
3. MDL = method detection limit.
4. All the reported results of soluble heavy metals are adjusted analytical results with the analytical correction shown in the following table.

Element	Sb	As	Ba	Cd	Cr	Pb	Hg	Se
Analytical correction (%)	60	60	30	30	30	30	50	60

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

Test Method: With reference to ASTM F963-17 Section 8.3.2 to Section 8.3.5, was analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Elements	Sb	As	Ba	Cd	Cr	Pb	Hg	Se	Conclusion
Limit (mg/kg)	60	25	1000	75	60	90	60	500	
MDL (mg/kg)	5	2.5	5	5	5	5	5	5	
Material No.	Result (mg/kg)								
2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

Elements	Sb	As	Ba	Cd	Cr	Pb	Hg	Se	Conclusion
Limit (mg/kg)	60	25	1000	75	60	90	60	500	
MDL (mg/kg)	5	2.5	5	5	5	5	5	5	
Material No.	Result (mg/kg)								
9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
10	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 (< MDL).
3. MDL = method detection limit.
4. All the reported results of soluble heavy metals are adjusted analytical results with the analytical correction shown in the following table.

Element	Sb	As	Ba	Cd	Cr	Pb	Hg	Se
Analytical correction (%)	60	60	30	30	30	30	50	60

(8) CPSC- Safety Aspects Related to Mechanical and Physical Properties

Appropriate Age Grade: Over 3 years old

Test Methods	Testing Parameters	Result
CPSC 16 CFR 1500.48	Sharp Points	PASS
CPSC 16 CFR 1500.49	Sharp Edges	PASS
CPSC 16 CFR 1501	Small Parts	NA
CPSC 16 CFR 1500. 19	Labeling Requirement	NA
CPSC 16 CFR 1510	Infant Rattle	NA
CPSC 16 CFR 1511	Pacifiers	NA

Use and abuse testing (16 CFR 1500.50-53):

Applicable section	Description	Test Condition
16 CFR 1500.50	Normal use testing	
16 CFR 1500.50	Abuse testing	
16 CFR 1500.53(b)	Impact Test	4×3ft
16 CFR 1500.53(e)	Torque test	4in.lbf
16 CFR 1500.53(f)	Tension test	15lbf
16 CFR 1500.53(g)	Compression test	NA
16 CFR 1500.52(c)	Bite test	NA
16 CFR 1500.52(d)	Flexure test	NA

Note: NA = Not Applicable.

(9) Flammability of Solids(CPSC 16 CFR 1500.44)

Sample	Burn Rate (in./sec.)	Limit(in./sec.)
Toy	0.02	0.1

Note: 1. All styles of submitted sample(s) (and its accessories) was/were tested, the above result only showed the most severe burn rate.

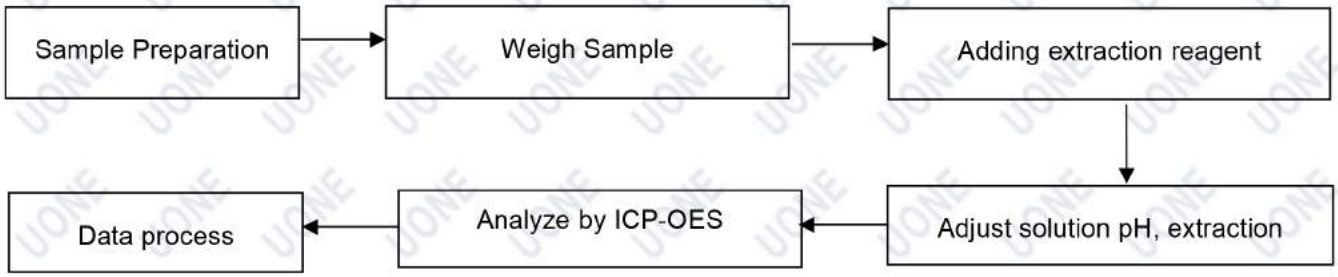
(10) Total Lead content

Test Method: With reference to Coating - CPSC-CH-E1003-09.1, analyzed by Atomic Absorption Spectroscopy (AAS) or Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Material No.	MDL (mg/kg)	Limit (mg/kg)	Result (mg/kg)	Conclusion
1	10	90	N.D.	PASS

Note:
1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< MDL).
3. MDL = method detection limit.

Test Flow Chart



Photo(s) of Sample:

End of Report

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

Statement

1. The information as listed on the first page of this test report was all provided by the client except the received date, testing period, test result(s) and test request. The client shall be responsible for the representativeness of sample and authenticity of materials, for which UONE shall bear no responsibilities.

2. Unless otherwise stated the results shown in this report refer only the sample(s) tested and does not bear other joint and several liabilities.

3. This report is considered invalidated without the Special Seal for Inspection of the UONE, This report shall not be altered, increased or deleted.

4. Without written approval of UONE, this report shall not be reproduced in part or published as advertisement.

5. Objection should be issued in 15 days upon receiving the report, overdue opinion is inadmissible.

6. If the report is not stamped with the accreditation recognized seal, it will only be used for scientific research, education, and internal quality control activities, and is not used for the purpose of issuing supporting data to the society.

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.