

Test Report

Report No.: U01106230209122-3E

Query Password: QW0311

Date: Feb. 15, 2023

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Applicant: SHANTOU RUIYU NETWORK TECHNOLOGY CO., LTD**Contact information:** 2 / F, NO.3, HENG4, LONGTIAN XINGOU ROAD, GUANGYI, CHENGHAI DISTRICT,
SHANTOU CITY, GUANGDONG PROVINCE, CHINA**The following sample(s) was (were) submitted and identified by client as:**

Sample Description : BUILDING BLOCK TOY
Item No. : Please refer to next page(s).
Packaging Provided : Yes
Labeled Age Grading : /
Requested Age Grading : 6+
Age Group Applied in Testing : 6+
Received Date : Feb. 9, 2023
Testing Period : From Feb. 9, 2023 to Feb. 15, 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



Thea Ye

Checked by



Marcia Deng

Approved by



Lewis Liu

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

ASTM F963-17 American Standard Consumer Safety Specification for Toy Safety

(1) Mechanical and Physical Properties

(2) Flammability

(3) Battery-Operated Toys for Section 4.25

(4) Total Lead content in paint and surface coating

(5) Total Lead content in substrate material

(6) Soluble Heavy Metals content in paint and surface coating

(7) Soluble Heavy Metals content in substrate material

CONCLUSION**PASS****PASS****PASS****PASS****PASS****PASS****PASS**

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Item No.:

BC-01, BC-02, BC-03, BC-04, BC-05, BC-05S, BC-06, BC-06S, BC-09, BC-10, BC-11, BC-12, BC-12S, BC-13, BC-14, BC-15, BC-15S, BC-16, BC-17, BC-18, BC-19, BC-20, BC-21, BC-22, BC-23, BC-24, BC-25, BC-26, BC-27, BC-28, BC-29, BC-30, BC-31, BC-32, BC-33, BC-34, BC-35, BC-36, BC-37, BC-38, BC-39, BC-81, BC-82, BC-83, BC-84, BC-85, BC-86, BC-87, BC-88, BC-89, BC-90, BC-91, BC-92, BC-93, BC-94, BC-95, BC-96, BC-97, BC-98, BC-99, BC-101, BC-102, BC-103, BC-104, BC-105, BC-106, BC-107, BC-108, BC-109, BC-110, BC-111, BC-112, BC-113, BC-114, BC-115, BC-116, BC-117, BC-118, BC-119, BC-120, BC-121, BC-122, BC-123, BC-124, BC-125, BC-126, BC-127, BC-128, BC-129, BC-130, BC-131, BC-132, BC-133, BC-134, BC-135, BC-136, BC-137, BC-138, BC-139, BC-201, BC-202, BC-203, BC-204, BC-205, BC-206, BC-207, BC-208, BC-209, BC-210, BC-211, BC-212, BC-213, BC-214, BC-215, BC-216, BC-217, BC-218, BC-219, BC-220, BC-221, BC-222, BC-223, BC-224, BC-225, BC-226, BC-227, BC-228, BC-229, BC-230, BC-231, BC-232, BC-233, BC-234, BC-235, BC-236, BC-237, BC-238, BC-239, BC-301, BC-302, BC-303, BC-304, BC-305, BC-306, BC-308, BC-309, BC-310, BC-311, BC-312

Test Material(s) List

Material No.	Description (Location)	Remark
1	White plastic	/
2	Grey plastic	/
3	Red plastic	/
4	Black soft plastic	/
5	Black coating	/

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	NA
4.6	Small Objects	NA
4.6.1	Toys that are intended for children under 36 months of age	NA
4.6.2	Mouth-Actuated Toys*	NA

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Section	Test Item	Assessment
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	NA
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	NA
4.20	Pacifiers	NA
4.21	Projectiles Toys	NA
4.22	Teethers and Teething Toys	NA
4.23	Rattles	NA
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

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Section	Test Item	Assessment
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	NA
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
5.8	Toys Intended to be Assembled by an Adult	NA
5.9	Simulated Protective Devices	NA
5.10	Toys with Functional Sharp Edges and Sharp Points (4-8yrs)	NA
5.11	Small Objects, Small Balls, Marbles, and Balloons	NA
5.12	Toy Caps	NA
5.13	Art Materials	NA
5.14	Electric Toys	NA
5.16	Promotional Materials	PASS
5.17	Magnets	NA

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Section	Test Item	Assessment
6	Instructional literature	
6.1	Definition and Description	NA
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
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	NA
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

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Section	Test Item	Assessment
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

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

(2) Flammability – ASTM F963-17 Section 4.2

Section	Test Item	Assessment
4.2	Flammability	PASS See Note

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.

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

Power Source:

3 x 1.5 V, AA replaceable

2 x 1.5 V, AAA 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	PASS
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
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	PASS
7.2	Battery-Powered Ride-on Toys	NA

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Section	Test Item	Assessment
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(°C)		Limited (°C)
	Normal Use	stalled motor	
Ambient temperature	22.3	22.5	--
Battery surface (Toy)	38.3	24.1	71
Battery surface (R/C)	30.2	/	71

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(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
5	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
1	10	100	N.D.	PASS
2	10	100	N.D.	PASS
3	10	100	N.D.	PASS
4	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)								
5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

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- 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)								Conclusion
1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	
4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	

- 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

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Photo(s) of Sample:



End of Report

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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.
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