

TEST REPORT

No.:ED190422995C011

Date: June 24, 2019

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Applicant : SHENZHEN GREATFAVONIAN ELECOTRONIC CO.,LTD
Address : 5F,TONGFUYU INDUSTRIAL PARK,LEZHUJIAO,ZHOUSHI ROAD,
 BAOAN DISTRICT,SHENZHEN,GUANGDONG,CHINA 518126
Sample Name : Controller
Style/Item No. : C004
Material : Plastic
Supplier : Shenzhen Greatfavian Elecotron Co.,Ltd
Description : Black color, 13 keys, wireless
Labeled Age Grading : Ages 5 & Up
Requested Age Grading : Ages 5 & Up
Age Group Applied in Testing : Over 5 years
Sample Received Date : April 22, 2019
Testing Completed Date : June 24, 2019
Test Requested : As specified by the client, For compliance with the test requirement of
 ASTM F963-17 Standard Consumer Safety Specification on Toy Safety.
Test Results : Please refer to next page (s).

Executive Summary:

STANDARD	CONCLUSION
ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	PASS

Signed for and on behalf of
EMTEK (Dongguan) Co., Ltd.

Prepared by: Cherry
Cherry Zhu
Report Engineer

Reviewed by: Carrie
Carrie Zhang
Supervisor

Approved by: Lisa
Lisa Li
Manager

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Test Results:

AS SPECIFIED IN ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clause	Description	Result
4.	<u>Safety Requirements</u>	
4.1	Material Quality(Visual Examination).....	Pass
4.2	Flammability	Pass (See Note 1)
4.3	Toxicology	
4.3.1	Hazardous Substances	N/A
4.3.2	Manufacturing and Packaging of Food	N/A
4.3.3	Indirect Food Additives	N/A
4.3.4	Cosmetics	N/A
4.3.5	Heavy Elements	Pass (See Note 2)
4.3.6	Cosmetics, Liquids, Pastes, Putties, Gels and Powders	N/A
4.3.7	Stuffing Materials.....	N/A
4.3.8	DEHP	N/A
4.4	Electrical/Thermal Energy.....	N/A
4.5	Sound-producing Toys.....	N/A
4.6	Small Objects	
4.6.1	Toys that are intended for children under 36 months of age.....	N/A
4.6.2	Mouth-Actuated Toys.....	N/A
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.....	N/A
4.7	Accessible Edges.....	Pass
4.8	Projections.....	N/A
4.9	Accessible Points.....	Pass
4.10	Wires or Rods	N/A
4.11	Nails and Fasteners.....	Pass
4.12	Plastic Film.....	N/A
4.13	Folding Mechanisms and Hinges.....	N/A
4.14	Cords, Straps, and Elastics	N/A
4.15	Stability and Over-Load Requirements.....	N/A
4.16	Confined Spaces.....	N/A
4.17	Wheels, Tires and Axles.....	N/A
4.18	Holes, Clearance and Accessibility of Mechanisms.....	N/A
4.19	Simulated Protective Devices.....	N/A
4.20	Pacifiers.....	N/A
4.21	Projectile Toys.....	N/A
4.22	Teethers and Teething Toys.....	N/A
4.23	Rattles.....	N/A
4.24	Squeeze Toys.....	N/A
4.25	Battery-Operated Toys.....	Pass
4.26	Toys Intended to be Attached to a Crib or Playpen.....	N/A
4.27	Stuffed and Beanbag-Type Toys.....	N/A
4.28	Stroller and Carriage Toys.....	N/A

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Clause	Description	Result
4.29	Art Materials.....	N/A
4.30	Toy Gun Marking.....	N/A
4.31	Balloons.....	N/A
4.32	Certain Toys with Nearly Spherical Ends.....	N/A
4.33	Marbles.....	N/A
4.34	Balls.....	N/A
4.35	Pompoms.....	N/A
4.36	Hemispheric-Shaped Objects.....	N/A
4.37	Yo-Yo Elastic Tether Toys.....	N/A
4.38	Magnets	N/A
4.39	Jaw Entrapment in Handles and Steering Wheels.....	N/A
4.40	Expanding Materials.....	N/A
4.41	Toy Chests.....	N/A
5.	<u>Safety Labeling Requirements</u>	
5.1	Federal Government Requirements.....	N/A
5.2	Age Grading Labeling.....	Pass
5.3	Safety Labeling Requirements	N/A
5.4	Aquatic Toys.....	N/A
5.5	Crib and Playpen Toys.....	N/A
5.6	Mobiles.....	N/A
5.7	Stroller and Carriage Toys.....	N/A
5.8	Toys Intended to be Assembled by an Adult.....	N/A
5.9	Simulated Protective Devices.....	N/A
5.10	Toys with Functional Sharp Edges or Points.....	N/A
5.11	Small Objects, Small Balls, Marbles and Balloons.....	N/A
5.12	Toy Caps.....	N/A
5.13	Art Materials.....	N/A
5.14	Electric Toys.....	N/A
5.15	Battery-Operated Toys.....	N/A
5.16	Promotional Materials.....	N/A
5.17	Magnets	N/A
6.	<u>Instructional Literature</u>	
6.1	Definition and Description.....	N/A
6.2	Crib and Playpen Toys.....	N/A
6.3	Mobiles.....	N/A
6.4	Toys Intended to be Assembled by an Adult.....	N/A
6.5	Battery-Operated Toys.....	Pass
6.6	Battery Powered Ride-on Toys.....	N/A
6.7	Toys in contact with Food.....	N/A
6.8	Toy Chests.....	N/A
7.	<u>Producer's Markings</u>	
7.1	Producer's Markings	Pass
7.2	Battery-Powered Ride-on Toys.....	N/A
7.3	Toy Chests.....	N/A

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Clause	Description	Result
8.	<u>Test Method</u>	
8.5	Normal Use Testing.....	<u>Pass</u>
8.5.1	Washable Toys.....	<u>N/A</u>
8.7	Impact Test.....	<u>Pass</u>
8.8	Torque Test.....	<u>Pass</u>
8.9	Tension Test.....	<u>Pass</u>
8.9.1	Seam Test.....	<u>N/A</u>
8.10	Compression Test.....	<u>N/A</u>
8.12	Flexure Test.....	<u>N/A</u>
8.16	Tension Test for Pompoms.....	<u>N/A</u>

N/A = Not Applicable

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Test Results:Note 1

Flammability Requirements

ASTM F963-17 – Flammability test (Clause 4.2)Flammability Test on Solid

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>	<u>Limit (inch/sec)</u>
Controller	IBE	0.1

IBE = Ignite But Self-Extinguished

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Test Results:

Note 2

Heavy Elements

Remark: After normal use and abuse test, no metallic component (small part) was found.

a. Heavy metal content in paint and similar surface coating material: ASTM F963-17 Section 4.3.5.1

Test Method: Samples were extracted in diluted hydrochloric acid in accordance with ASTM F963-17 (CLAUSE 8.3), and the analysis was performed by ICP-OES.

Test Item	Total	Soluble							
	Pb	Sb	As	Ba	Cd	Cr	Pb	Hg	Se
Requirement (mg/kg)	90	60	25	1000	75	60	90	60	500
Test Item No.	Adjusted Soluble Result (mg/kg)								
8	<2	<2	<2	<2	<2	<2	<2	<2	<2

b. Heavy metal content in Toy Substrate Materials: ASTM F963-17 Section 4.3.5.2

Test Method: Samples were extracted in diluted hydrochloric acid in accordance with ASTM F963-17 (CLAUSE 8.3), and the analysis was performed by ICP-OES.

Test Item	Total	Soluble							
	Pb	Sb	As	Ba	Cd	Cr	Pb	Hg	Se
Requirement (mg/kg)	100	60	25	1000	75	60	90	60	500
Test Item No.	Adjusted Soluble Result (mg/kg)								
1	<2	<2	<2	<2	<2	<2	<2	<2	<2
2	<2	<2	<2	<2	<2	<2	<2	<2	<2
3	<2	<2	<2	<2	<2	<2	<2	<2	<2
4	<2	<2	<2	<2	<2	<2	<2	<2	<2
5	<2	<2	<2	<2	<2	<2	<2	<2	<2
6	<2	<2	<2	<2	<2	<2	<2	<2	<2
7	<2	<2	<2	<2	<2	<2	<2	<2	<2
9#	18	---	---	---	---	---	---	---	---

Note: < = Less than mg/kg = part per million = ppm

Remark: # = Accessible specimen(s) (glass, metal or ceramic) was (were) not small part, no requirement to test the soluble migrated element according to ASTM F963-17 Section 4.3.5.2(1).

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Tested Materials:

No.	Description
1	White hard plastic with black printing (shell / button)
2	Black hard plastic with white printing (shell / button)
3	Black hard plastic (switch)
4	Black hard plastic (socket)
5	Black hard plastic (connector of antenna)
6	Black soft plastic (antenna)
7	Black soft plastic (feet pad)
8	Black coating on the metal (rivet of antenna)
9	Silver metal (socket)

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Photo Appendix



* * * * * The End * * * * *

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