

Test Report

Report No.: U01104230315117E

Query Password: QW3626

Date: Mar. 21, 2023

Page 1 of 15

Applicant: Leading Edge Novelty
Contact information: 33 North Mall Plainview, NY 11803

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

Sample Name : Aircraft toy
Model No. : GF99
Packaging Provided : Yes
Labeled Age Grading : 3+
Requested Age Grading : 3+
Age Group Applied in Testing : 3+
Received Date : Mar. 15, 2023
Testing Period : From Mar. 15, 2023 to Mar. 21, 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



Ruth Lai

Checked by



Marcia Deng

Approved by



Lewis Liu

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Test Report

Report No.: U01104230315117E

Query Password: QW3626

Date: Mar. 21, 2023

Page 2 of 15

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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. Consumer Product Safety Improvement Act of 2008(CPSIA) Section 103		
(8)	Tracking labels for children's products	PASS

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Test Report

Report No.: U01104230315117E

Query Password: QW3626

Date: Mar. 21, 2023

Page 3 of 15

Test Material(s) List

Material No.	Description (Location)	Remark
1	Translucent plastic	/
2	Yellow plastic	/
3	Black plastic	/
4	White soft plastic	/
5	Silvery 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
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

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Test Report

Report No.: U01104230315117E

Query Password: QW3626

Date: Mar. 21, 2023

Page 4 of 15

Section	Test Item	Assessment
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
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

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Test Report

Report No.: U01104230315117E

Query Password: QW3626

Date: Mar. 21, 2023

Page 5 of 15

Section	Test Item	Assessment
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
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
6.6	Battery Powered Ride-on Toys	NA
6.7	Toys in Contact with Food	NA
6.8	Toy Chests	NA
7	Producer's Markings	
7.1	Producer's Markings	PASS

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Test Report

Report No.: U01104230315117E

Query Password: QW3626

Date: Mar. 21, 2023

Page 6 of 15

Section	Test Item	Assessment
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
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

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Test Report

Report No.: U01104230315117E

Query Password: QW3626

Date: Mar. 21, 2023

Page 7 of 15

(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	0.05	0.1

- Remark:**
- * = Burning rate has been rounded to the nearest one tenth of an inch per second.
 - 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: 1 x 3.7 V, rechargeable battery

Section	Test Item	Assessment
4.25	Battery-operated toys	PASS
4.25.1	Battery information marking in battery compartment	NA
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	NA
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 °C	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

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Test Report

Report No.: U01104230315117E

Query Password: QW3626

Date: Mar. 21, 2023

Page 8 of 15

Section	Test Item	Assessment
4.25.8.1	Temperature on rechargeable lithium batteries during normal use charging and any discharging of the battery	PASS
4.25.9	Instruction requirement	NA
4.25.10*	Battery-powered ride on toys	NA
4.25.11*	Toys that Contain Secondary Cells or Secondary Batteries	PASS
4.25.11.1*	lithium ion or lithium ion polymer cells comply with standard ANSI C18.2M Part 2 or UL 1642 or IEC 62133	PASS
4.25.11.2*	Lithium ion or lithium ion polymer batteries comply with standard ANSI C18.2M Part 2 or UL 2054 or IEC 62133	PASS
4.25.11.3*	Lithium ion or lithium ion polymer cells provided with an enclosure that provides protection against damage to the cells and their circuitry during normal use and foreseeable abuse of the toy	PASS
4.25.11.4*	During charging with the provided charging device, no cell shall exceed the cell or battery manufacturer's specified charging voltage, current, and temperature values	PASS
4.25.11.5*	During discharge with the provided charger and load, Any cell's maximum discharge current shall not exceed the cell manufacturer's specifications during normal operation and stalled motor test	PASS
	Lithium ion or lithium ion polymer cell(s) cutoff voltage shall not be less than the manufacturer's specified minimum in any operating mode.	PASS
4.25.11.6*	During normal use charging and discharging, Temperature rises on any battery surfaces or any other accessible surface of the toy exceeding :25°C(metal surface) or 30°C(ceramic/ glass surface) or 35°C(wood/ plastic surface)	PASS
4.25.11.7*	Plug into the electric mains power battery chargers or power adaptors shall be listed by a Nationally Recognized Test Laboratory (NRTL)	NA
	During charging external connectors shall ensure correct polarity	NA

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Test Report

Report No.: U01104230315117E

Query Password: QW3626

Date: Mar. 21, 2023

Page 9 of 15

Section	Test Item	Assessment
4.25.11.8*	<p>Circuit wiring connected to lithium ion or lithium ion polymer and NiMH secondary batteries shall be short circuit protected</p> <p>-- Not present the risk of fire when tested in accordance with 8.19.5.</p> <p>-- Temperatures on any accessible surfaces of any secondary battery shall not exceed the limit</p> <p>-- Cells shall not cause battery explosion.burning or charring of the combustible materials.</p> <p>-- If cells vent, electrolyte shall not become accessible.</p> <p>-- Removable secondary batteries was not able to be short circuited by placing terminals of opposite polarity against a flat conductive surface</p> <p>-- Short circuit protection shall be incorporated into lithium ion or lithium ion polymer batteries.</p>	PASS
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	NA
6.6	Battery Powered Ride-on Toys	NA
7.2	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	PASS
8.19.1*	Pre-Conditioning	PASS
8.19.2*	Battery Overcharge Test	NA
8.19.3*	Repetitive Overcharge Test	PASS
8.19.4*	Single Fault Charging Test	PASS
8.19.5*	Short Circuit Protection Test	PASS
8.19.5.1*	Removable Batteries	NA
8.19.5.2*	Toys Using Lithium Batteries	PASS
8.19.5.3*	Toys Using Nickel Metal Hydride Batteries	NA

Remark: NA = Not Applicable.

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Test Report

Report No.: U01104230315117E

Query Password: QW3626

Date: Mar. 21, 2023

Page 10 of 15

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Clause 4.25.11.4&4.25.11.5 Electrical parameter	
Test Item	Result
Maximum Charge voltage(V)	4.23
Maximum Charge current(mA)	240
Maximum discharge current (mA)	100
Charge cutoff voltage(V)	4.20
Discharge cutoff voltage(V)	2.55

Clause 4.25.7 Temperature on battery surface			P
Location	Maximum temperature(°C)		Limited (°C)
	Normal Use	stalled motor	
Ambient temperature	23.2	23.1	--
Battery surface (Battery Box)	33.9	33.9	71

Clause 4.25.8.1 & 4.25.11.4 Temperature test			P
Condition	Maximum temperature(°C)		Limited (°C)
	Battery surface	Ambient temperature	
Normal Charge	23.8	23.2	71
Normal Discharge	25.3	23.3	71
Clasuse 8.19.1 Pre-Conditioning	23.2	23.3	45
Clasuse 8.19.3 Repetitive Overcharge Test	23.6	23.3	45

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Test Report

Report No.: U01104230315117E

Query Password: QW3626

Date: Mar. 21, 2023

Page 11 of 15

Clause 4.25.11.6 Temperature rise test				PASS
Condition		Maximum temperature rise (°C)		Limited (°C)
		Battery surface	Ambient temperature	
Clasuse 8.19.1 Pre-Conditioning	Charge	2.3	23.2	35
	Discharge	4.7	23.3	35
Clasuse 8.19.3 Repetitive Overcharge Test	Charge	2.2	23.3	35

Clasuse 8.19.5 Short Circuit Protection Test				PASS
Location	Accessible	Maximum temperature(°C):	Ambient temperature(°C):	Limited(°C)
Battery surface	No	23.8	23.2	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
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.

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Test Report

Report No.: U01104230315117E

Query Password: QW3626

Date: Mar. 21, 2023

Page 12 of 15

(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

- 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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Test Report

Report No.: U01104230315117E

Query Password: QW3626

Date: Mar. 21, 2023

Page 13 of 15

(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)								
1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
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

- 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) Tracking labels for children's products

Test Item	Test Method	Requirement	Result
Tracking labels for children's products	Consumer Product Safety Improvement Act of 2008	A permanent and distinguishing mark on the product and its packaging, to the extent practicable, enabling the manufacturer and purchaser to ascertain the name of the manufacturer or private labeler, location and date of production of the product.	Comply with the requirement

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Test Report

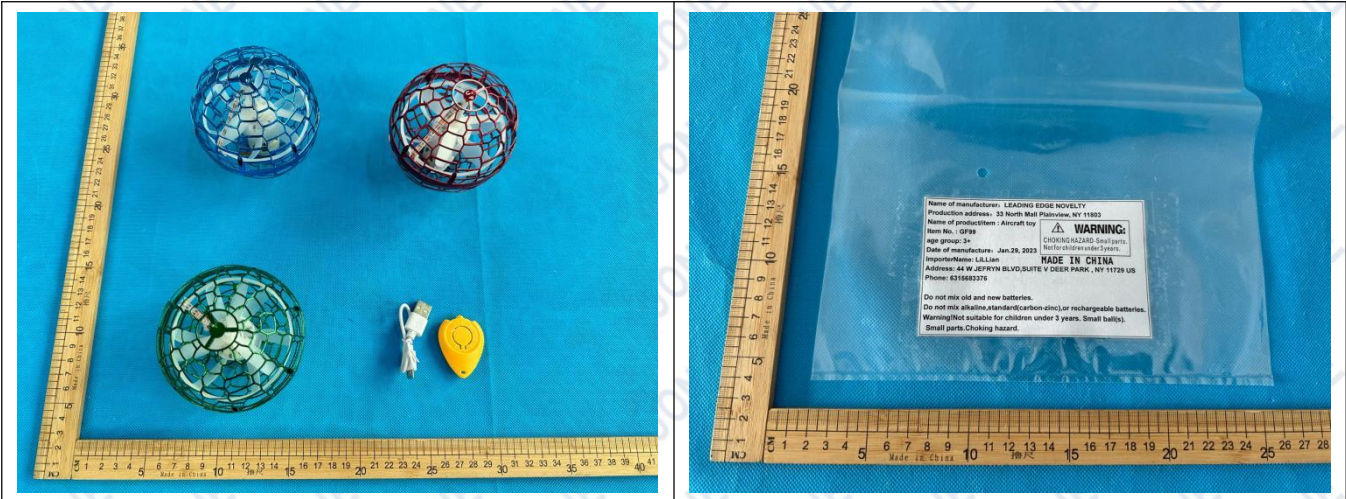
Report No.: U01104230315117E

Query Password: QW3626

Date: Mar. 21, 2023

Page 14 of 15

Photo(s) of Sample:



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Test Report

Report No.: U01104230315117E**Query Password: QW3626****Date: Mar. 21, 2023****Page 15 of 15**

Statement

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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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