



中国认可  
国际互认  
检测  
TESTING  
CNAS L5950

# Test Report

No.: SPF21030295Y

Date: Nov. 19, 2021

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ZHILEXING TOYS FACTORY  
CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

This report is updated based on the report No.SPF21030295.

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

Name of product/item : Aircraft Series

Item No. : H230, H231, H232, H234, H235, H235-1, H236, H236-1, H237, H237-1, H238, H238-1, H239, H239-1, H240, H240-1, H241, H241-1, H242, H242-1, H243, H243-1, H244, H244-1, H245, H245-1, H246, H246-1, H247, H247-1, H248, H248-1, H249, H249-1, H250, H250-1, H251, H251-1, H252, H252-1, H253, H253-1, H254, H254-1, H255, H255-1, H256, H256-1, H257, H257-1, H258, H258-1, H259, H259-1, H260, H260-1, H261, H261-1, H262, H262-1, H263, H263-1, H264, H264-1, H265, H265-1, H266, H266-1, H267, H267-1, H268, H268-1, H269, H269-1, H270, H270-1, H271, H271-1, H272, H272-1, H273, H273-1, H274, H274-1, H275, H275-1, H276, H276-1, H277, H277-1, H278, H278-1, H279, H279-1, H280, H280-1.

Labeled age grading : 8+

Age group applied in testing: 8+

Sample received date: Jan. 20, 2021; Jan. 26, 2021; Nov. 08, 2021

Testing period: From Jan. 20, 2021 to Jan. 30, 2021; Nov. 08, 2021 to Nov. 16, 2021

Test conclusion:

Summary

ASTM F963-17 Mechanical and Physical Properties

ASTM F963-17 Flammability

ASTM F963-17 Toxic Elements Test

US ASTM F963-17, Clause 4.3.5.2-Heavy Metal in Substrate Materials

Result

Pass

Pass

Pass

Tested by : Apple.

Huang Ping, Apple

Inspected by : Wend

Zhang WenXia, Wend

Approved by : Jee

Zhang Feng, Jee

Lab Manager



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## 1. Mechanical and Physical Properties:

Section	Description	Result
4.1	Material quality (by visual assessment)	P
4.5	Sound-producing toys.....	P
4.6	Small objects .....	NA
4.7	Accessible edges .....	NA
4.8	Projections .....	NA
4.9	Accessible points .....	NA
4.10	Wires or Rods .....	NA
4.11	Nails and Fastens .....	P
4.12	Plastic Film .....	P
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
4.17	Wheels, tires and axles.....	NA
4.18	Holes, Clearance and Accessibility of mechanisms .....	NA
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 <sup>[1]</sup> *
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

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4.39	Jaw Entrapment in Handles and Steering Wheels .....	NA
4.40	Expanding Materials.....	NA
4.41	Toy Chests.....	NA
5	Labeling Requirement	
5.1	Federal Government Requirements .....	NA
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	Toys Caps .....	NA
5.14	Electric Toys .....	NA
5.15	Battery - Operated Toys .....	NA
5.16	Promotional Materials .....	P
5.17	Magnets .....	NA
6	Instructional Literature	
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 [1] *
6.6	Battery Powered Ride-on Toys.....	NA
6.7	Toys in Contact with Food .....	NA
6.8	Toy Chests.....	NA
7	Producer’s marking	
7.1	Producer’s marking.....	P
	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.)	
7.2	Battery – Powered Ride on Toys .....	NA
7.3	Toy Chests.....	NA

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Note:

- (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) Only applicable clauses were shown.
- (3) NC = Not Conducted (According to customer requirement, no evaluation of this clause)
- (4) "[1]": This test was only conducted on specific product (1 × 3.7V Li-ion battery for Aircraft) as per applicant's request.
- (5) "\*": The result of this clause is provided by external supplier.

## 2. Flammability:

Test of materials other than textile materials.

As per section 4.2 of the ASTM standard consumer safety specification on toy safety F963-17.

Sample	Burn rate (Inch/Sec)	Limit (Inch/Sec)	Result
Dark blue aircraft	0.03	0.10	Pass

Note:

All styles of the submitted toy samples and its accessories were tested, the above result only showed the most severe burn rate.

## 3. Toxic Elements analysis:

With reference to 8.3 in ASTM F963-17, CPSC-CH-E1002-08.3, by Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES) analysis.

Non-modelling clay:

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

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Sample No. Item(s)	Result (mg/kg)					Report limit (mg/kg)	Limit (mg/kg)
	6	7	8	9	10		
Lead (Pb)	ND	ND	ND	ND	ND	10	100
Soluble Lead (Pb)	ND	ND	ND	ND	ND	10	90
Soluble Cadmium (Cd)	ND	ND	ND	ND	ND	5	75
Soluble Chromium (Cr)	ND	ND	ND	ND	ND	5	60
Soluble Mercury (Hg)	ND	ND	ND	ND	ND	5	60
Soluble Arsenic (As)	ND	ND	ND	ND	ND	5	25
Soluble Selenium (Se)	ND	ND	ND	ND	ND	10	500
Soluble Antimony (Sb)	ND	ND	ND	ND	ND	10	60
Soluble Barium (Ba)	ND	ND	ND	ND	ND	100	1000

### Tested component(s):

Code	Specimen name	Code	Specimen name
1	Black plastic (wire skin of USB)	6	Dark blue plastic (unmanned aerial vehicle)
2	Black plastic (unmanned aerial vehicle)	7	Red plastic (unmanned aerial vehicle)
3	Orange red plastic (remote control)	8	Yellow plastic (unmanned aerial vehicle)
4	White plastic (unmanned aerial vehicle)	9	Light blue plastic (on glove)
5	Transparent plastic (unmanned aerial vehicle)	10	Pink plastic (unmanned aerial vehicle)

### Note:

- (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) mg/kg = ppm = part per million.
- (3) ND = Not detected (less than report limit).
- (4) Elements Migration results of eight elements shown are of the adjusted analytical results.

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Sample photo(s):



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\*\*\*End of Report\*\*\*