

Test Report

No. UTLR21090663R1

Date: Dec.14,2021

Password: PW8713

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Applicant: Elecrow Technology Co.,Ltd

Applicant address: West of F-building 8th floor, Fusen industry park, Gushu Hangcheng road, Bao'an Ave, Shenzhen city, China

The following samples were submitted and identified on behalf of the clients as

Sample Name: Crowbits-All in One Pack Kit
 Sample description: Crowbits are designed for STEM education and it allows children to learn programming easily or teachers to bring the detailed lesson plans into their classroom and embed them in their learning system.
 Model No.: CRK00066A
 Additional model: CRB0000PK, CRB0000AK, CRB0000MK, CRB0000LK, CRB0000HK
 Batch No.: 20210116CBITS-L
 Trade: Elecrow
 Manufacturer: Elecrow Technology Co.,Ltd
 Manufacturer address: West of F-building 8th floor, Fusen industry park, Gushu Hangcheng road, Bao'an Ave, Shenzhen city, China
 Age grade labeled: 10 years +
 Test age grade: 10 years +
 Sample Received Date: Sep.24, 2021
 Test Period: Sep.24, 2021 to Sep.30, 2021, Dec.10,2021 to Dec.14,2021
 Test Method: Please refer to next page(s).
 Test Result: Please refer to next page(s).

CONCLUSION :

According to client's request to conduct below tests in the selected parts of the submitted sample:

TEST ITEM	RESULT
1. Total lead content in substrate materials -United States Consumer Product Safety Improvement Act (CPSIA), Section 101(a)	PASS
2.ASTM F963-17 "Standard consumer safety specification for toy safety," Section 4.3.5.2.Soluble Heavy Metals content in substrate material	PASS

TO BE CONTINUED



Authorized Signatory
 Title: Lab Manager

For and on behalf of
 Dongguan Universal Testing Technology Co., Ltd.

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CONCLUSION :

According to client's request to conduct below tests in the selected parts of the submitted sample:

<u>TEST ITEM</u>	<u>RESULT</u>
3. Phthalates content- United States Consumer Product Safety Improvement Act (CPSIA), Section 108 Prohibition On Sale of Certain Products Containing Specified Phthalates	PASS
4. Mechanical and Physical Properties -ASTM F963-17 American Standard Consumer Safety Specification for Toy Safety	PASS
5. Flammability-ASTM F963-17 American Standard Consumer Safety Specification for Toy Safety	PASS

Remark: This report was the revised version of UTLR21090663, the original version were superseded and deemed to be null and invalid hereby.

Test Result(s):

Part(s) No.	Part(s) Description
P1	White plastic
P2	Blue plastic
P3	Finished product

1. Total Lead Content In Substrate Materials-United States Consumer Product Safety Improvement Act (CPSIA) Section 101 (a)

Method used: CPSC testing method CPSC-CH-E1002-08.3 for non metallic materials & CPSC-CH-E1001-08.3 for metallic materials, analyzed by Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Test Parameter(s)	Unit	Result(s)(mg/kg)		MDL	Limit
		<u>P1</u>	<u>P2</u>		
Lead(Pb)	mg/kg	N.D.	N.D.	10	100
Conclusion		Pass	Pass	--	--

Note:

1. mg/kg = milligram per kilogram
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit

2. Soluble Heavy Metals Content In Substrate Material - ASTM F963-17 Section 4.3.5.2

Method: ASTM F963-17 Section 8.3.5, was analyzed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-OES).

Test Parameter(s)	Sb	As	Ba	Cd	Cr	Pb	Hg	Se	Conclusion
Limit (mg/kg)	60	25	1000	75	60	90	60	500	
Analytical Correction (%)	60	30	30	30	50	30	60	60	
Material No.	Result(s)(mg/kg)								
<u>P1</u>	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Pass
<u>P2</u>	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Pass

Note:

1. mg/kg = milligram per kilogram: 2 mg/kg
2. N.D. = Not Detected (< MDL)

3.PHTHALATES CONTENT –USA CONSUMER PRODUCT SAFETY IMPROVEMENT ACT OF 2008,SECTION 108 PROHIBITION ON SALE OF CERTAIN PRODUCTS CONTAINING SPECIFIED PHTHALATES

Method Used: CPSC testing method CPSC-CH-C1001-09.4, analyzed by Gas Chromatography with Mass Selective Detector

Test Parameter(s)	CAS No.	Result(s)(%,w/w)		Limit(w/w)
		P1	P2	
Butyl benzyl phthalate(BBP)	85-68-7	N.D.	N.D.	0.1%
Dibutyl phthalate(DBP)	84-74-2	N.D.	N.D.	0.1%
Di (2-ethylhexyl) phthalate(DEHP)	117-81-7	N.D.	N.D.	0.1%
Di-n-hexyl phthalate(DNHP)	84-75-3	N.D.	N.D.	0.1%
Di-iso-nonyl phthalate(DINP)	28553-12-0/ 68515-48-0	N.D.	N.D.	0.1%
Di-iso-butyl ortho-phthalate(DIBP)	84-69-5	N.D.	N.D.	0.1%
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	0.1%
Diamyl phthalate (DPP/DPENP)	131-18-0	N.D.	N.D.	0.1%
Conclusion		Pass	Pass	-

Note(s):

1.ND denotes Not Detected

2.w/w = Mass Percentage

3.Method Detection Limit:0.0050%(each)

4. Mechanical and Physical Properties -ASTM F963-17 American Standard Consumer Safety Specification for Toy Safety

Applicable Clause	Test parameter(s)	Result(s)
		P3
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
4.7	Accessible Edges	Pass
4.8	Projections	NA
4.9	Accessible Points	NA
4.10	Wires or Rods	Pass
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 Requirement	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	NA
4.22	Teethers and Teething Toys	NA
4.23	Rattles	NA
4.24	Squeeze Toys	NA
4.25*	Battery-operated toys	Pass
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 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

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4.38*	Magnets	Pass
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding Materials	NA
4.41	Toy Chests	NA
5	Labeling Requirements	--
5.1	Federal Government Requirements	--
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	NA
5.4	Aquatic Toys	NA
5.5	Crib and Playpen Toys	NA
5.6	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	NA
5.12	Toy Caps	NA
5.13	Art Materials	NA
5.14	Electric Toys	NA
5.15	Battery-Operated Toys	NA
5.16	Promotional Materials	NA
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
6.5	Battery-operated toys	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	Name of the producer or the distributor	Pass
	Address of the producer or the distributor	Pass
7.2	Battery powered ride on toys	NA
7.3	Toy Chests	NA
8.5	Normal Use Testing	NA
8.7	Impact Test	NA
8.8	Torque Test	NA
8.9	Tension Test	NA

Note(s):

1.NA=Not Applicable

2.* Subcontracted item

5. Flammability – ASTM F963-17 Section 4.2

Method Used: ASTM F963-17 American Standard Consumer Safety Specification for Toy Safety

Section	Test item	Assessment
4.2	Flammability	Pass see note

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

Sample	Burn Rate(in/sec)	Limit (in/sec)
<u>P3(plastic strip)</u>	<0.1	0.1
<u>P3(tire)</u>	<0.1	0.1
<u>P3(wire)</u>	<0.1	0.1

Photos of submitted sample



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***** End of Test Report *****