

LAB LOCATION: SHANGHAI REPORT NUMBER: EFW524092295-CG-01
DATE IN: 10-Sep-2024 DATE OUT: 11-Sep-2024

Applicant:	Xinxiang Alpha Manufacturing Ltd.		
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Sample Information

 EFW524092295-CG-01	Sample Description:	Catapult Kit, Siege Catapult
	Item/ Style Number:	SR22222, SR23223
	Purchase Order Number:	/
	SKU #:	/
	Country of Origin:	China
	Country of Destination:	/
	Vendor/ Agent:	/
	Buyer:	/
	Supplier:	/

For and on behalf of

Eurofins MTS Consumer Product
Testing (Shanghai) Co. Ltd.



Gao Jian, David
Senior Manager, Toy Division

TEST RESULT SUMMARY

Test Requested	Results
Physical and Mechanical Requirements, ASTM F963-23 Standard Consumer Safety Specification for Toy Safety	PASS
Federal Hazardous Substances Act Regulations, 16 CFR 1500.3 (c)(6)(vi) Flammable Solid	PASS
Total Heavy Metal Screening in Similar Surface Coating Materials and Toys Substrate Materials – ASTM F963-23 Section 4.3.5.1(2) & 4.3.5.2(2)(b) / Section A12.7	DATA
Soluble Heavy Metals Content in Similar Surface Coating Materials and Toys Substrate Materials – ASTM F963-23 Section 4.3.5.1(2) & 4.3.5.2(2)(b)	PASS
Total Lead Content – U.S. Consumer Product Safety Improvement Act of 2008 (CPSIA), Title I, Section 101	PASS
Phthalates Content – 16CFR part 1307, amended U.S. Consumer Product Safety Improvement Act of 2008 (CPSIA), Title I, Section 108	PASS
Phthalates Content in Toys (including pacifiers, rattles, and teething rings) – ASTM F963-23 Section 4.3.8	PASS

COMPONENT BREAKDOWN LIST:

Test Item	Component Description
A	for play
#A1	Transparent plastic film(on design paper)
#A2	Black plastic(nail)
#A3	Orange foam(ball)
#A4	Green foam(ball)
#A5	Yellow foam(ball)
#A6	Red foam(ball)
#A7	Red plastic(flag)
#A8	Yellow plastic(rubber band)
#A9	Transparent plastic(O-ring)
#A10	White foam with glue(ring sticker)
#A11	Beige/Black polywood(board)

Result(s) in this report was/were transferred from the specified tested item(s) of EFW524086910-CG-01 dated on Sep 09, 2024.

TEST SUMMARY:

Specimen: Test Item: A
Client requested age grade: 6+
Labeled age grade: 6+
Appropriate age grade: Not Requested
Age grade for testing: Ages over 6 years

Physical and Mechanical Requirements, ASTM F963-23 Standard Consumer Safety Specification for Toy Safety

RESULTS:

SUBCLAUSE	REQUIREMENT	RESULT
4.1	Material Quality	#P
4.3.7	Stuffing materials	NA
4.4	Electrical/Thermal Energy – 120V	NA
4.5	Sound-producing Toys	NA
4.6	Small Objects	NA
4.7	Accessible Edges	#P
4.8	Projections	NA
4.9	Accessible Points	#P
4.10	Wires or Rods	NA
4.11	Nails and Fasteners	NA
4.12	Plastic Film	NA
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	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	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
4.30	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
4.38	Magnets	NA
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding Materials	NA
4.41	Toy Chests	NA
5.1.2	Tracking Label	#P
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	#P
5.12	Art Materials	NA
5.13	Electric Toys	NA
5.14	Battery-operated Toys	NA
5.15	Promotional Materials	#P
5.16	Magnets	NA
6.1	Instructional Literature - Definition and Description	#P
6.2	Crib and Playpen Toys	NA
6.3	Mobiles	NA
6.4	Toy 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
6.9	Specialty or Custom Tool	NA
7.1	Producer's Markings	#P
7.2	Battery-powered Ride-on Toys	NA
7.3	Toy Chests	NA

Note: P = Pass F = Fail NA = Not applicable NR = Not Requested

TEST SUMMARY:

Federal Hazardous Substances Act Regulations, 16 CFR 1500.3 (c)(6)(vi) Flammable Solid

RESULTS:

TEST METHOD	REQUIREMENT	#RESULT
16 CFR 1500.44 Flammable solid ASTM F963-23 4.2 (Annex A5)	Burnt rate shall be ≤ 0.1 inch / sec	P

Note: P = Pass F = Fail NA = Not applicable NR = Not Requested

TEST SUMMARY:
Total Heavy Metal Screening in Similar Surface Coating Materials and Toys Substrate Materials – ASTM F963-23 Section 4.3.5.1(2) & 4.3.5.2(2)(b) / Section A12.7

Test Item	Mass of Trace Amount (mg)	Result – Total Heavy Metals (mg/kg)								Conclusion
		Sb	As	Ba	Cd	Cr	Pb	Hg	Se	
#A1+A2	NA	<10	<10	<10	<10	<10	<10	<10	<10	PASS
#A3+A4+A5	NA	<10	<10	1140	<10	<10	<10	<10	<10	Refer to Individual Test Results
#A3	NA	<10	<10	3420	<10	<10	<10	<10	<10	Refer to Soluble Heavy Metals Test Results
#A4	NA	<10	<10	<10	<10	<10	<10	<10	<10	PASS
#A5	NA	<10	<10	<10	<10	<10	<10	<10	<10	PASS
#A6+A7+A8	NA	<10	<10	304	<10	<10	<10	<10	<10	PASS
#A9+A10	NA	<10	<10	34	<10	<10	<10	<10	<10	PASS
#A11	NA	<10	<10	<10	<10	<10	<10	<10	<10	PASS
Limit for Surface Coatings and Substrates Other Than Modeling Clay		60	25	1000	75	60	90	60	500	-
Limit for Modeling Clays		60	25	250	50	25	90	25	500	-

Sb = Antimony, As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Pb = Lead, Hg = Mercury, Se = Selenium

Method: ASTM F963-23 Section 8.3.1, sample was digested with acid mixture and analyzed by Inductively Coupled Argon Plasma Spectrometer / Inductively Coupled Plasma Mass Spectrometer / ASTM F963-23 Section A12.7, sample was analyzed by X-ray Fluorescence Spectrometry.

Remark: The received sample(s) contained component(s) of less than 10mg on one single sample, therefore such component(s) was not tested for soluble heavy metals content as specified in clause 8.3.3.6 (2) / 8.3.5.3 (2) of this standard.

TEST SUMMARY:
Soluble Heavy Metals Content in Similar Surface Coating Materials and Toys Substrate Materials – ASTM F963-23 Section 4.3.5.1(2) & 4.3.5.2(2)(b)

Test Item	Mass of Trace Amount (mg)	Result – Soluble Heavy Metals (mg/kg)								Conclusion
		Sb	As	Ba	Cd	Cr	Pb	Hg	Se	
#A3	NA	<10	<10	27	<10	<10	<10	<10	<10	PASS
Limit for Surface Coatings and Substrates Other Than Modeling Clay		60	25	1000	75	60	90	60	500	-
Limit for Modeling Clays		60	25	250	50	25	90	25	500	-

Sb = Antimony, As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Pb = Lead, Hg = Mercury, Se = Selenium

Method: ASTM F963-23 Section 8.3.2 (surface coatings) / ASTM F963-23 Section 8.3.5 (substrate material). The heavy metals content was determined by Inductively Coupled Argon Plasma Spectrometer / Inductively Coupled Plasma Mass Spectrometer.

Remark: 1. All the reported results 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

- The accessibility of the submitted sample is verified according to ASTM F963-23 before and after abuse.
- The material type of tested component(s) is / are classified as below per clause 8.3 of this standard.

Material Type Classification	Test Item
Polymeric and similar materials	A3

- The received sample(s) contained component(s) of less than 10mg on one single sample, therefore such component(s) was not tested for soluble heavy metals content as specified in clause 8.3.3.6 (2) / 8.3.5.3 (2) of this standard.

Note: mg/kg = milligram per kilogram
mg = milligram
“<” = less than

TEST SUMMARY:
Total Lead Content – U.S. Consumer Product Safety Improvement Act of 2008 (CPSIA), Title I, Section 101

Test Item	Accessibility (Remark 1)	Classification	Total Lead (Pb) (ppm)		Conclusion
			Result	Limit	
#A1+A2	Accessible as received	Accessible substrate	<10	100	PASS
#A3+A4+A5	Accessible as received	Accessible substrate	<10	100	PASS
#A6+A7+A8	Accessible as received	Accessible substrate	<10	100	PASS
#A9+A10	Accessible as received	Accessible substrate	<10	100	PASS
#A11	Accessible as received	Accessible substrate	<10	100	PASS

Method:

- Lead in paint and other similar surface coatings:
The test is conducted according to the US CPSC Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, February 25, 2011 (CPSC-CH-E1003-09.1)
- Lead in metals:
The test is conducted according to the US CPSC Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), November 15, 2012 (CPSC-CH-E1001-08.3)
- Lead in other non-metal materials including plastics, glass and leather material:
The test is conducted according to the US CPSC Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products, November 15, 2012 (CPSC-CH-E1002-08.3)

Remark:

- The accessibility of the submitted sample is verified according to 16 CFR 1500.87 (e) before and after abuse.

Note: ppm = part per million = mg/kg (milligram per kilogram)
"<" = less than

TEST SUMMARY:

Phthalates Content – 16CFR part 1307, amended U.S. Consumer Product Safety Improvement Act of 2008 (CPSIA), Title I, Section 108

Test Item	Result – Phthalates Content (%)								Conclusion
	DBP	BBP	DEHP	DIBP	DCHP	DINP	DnHP/DHEXP	DPP/DPENP	
#A1+A2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	PASS
#A3+A4+A5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	PASS
#A6+A7+A8	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	PASS
#A9+A10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	PASS
Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-

List of Phthalates:

Chemical Name	CAS No.	Chemical Name	CAS No.
Dibutyl phthalate (DBP)	84-74-2	Dicyclohexyl phthalate (DCHP)	84-61-7
Butyl benzyl phthalate (BBP)	85-68-7	Di-iso-nonyl phthalate (DINP)	28553-12-0/ 68515-48-0
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	Di-n-hexyl phthalate (DnHP/DHEXP)	84-75-3
Di-iso-butyl phthalate (DIBP)	84-69-5	Dipentyl phthalate (DPP/DPENP)	131-18-0

Method: The test is conducted according to the US CPSC Standard Operation Procedure for Determination of Phthalates, January 17, 2018 (CPSC-CH-C1001-09.4)

Remark: 1. Phthalates were not tested for this material as the material is claimed by applicant to be PP, PE, HIPS, ABS, GPPS, MIPS or SHIPS. These types of materials are exempted by CPSC for Phthalates test.

Note: % = percentage
“<” = less than
“>” = more than

TEST SUMMARY:
Phthalates Content in Toys (including pacifiers, rattles, and teethers) – ASTM F963-23 Section 4.3.8

Test Item	Result – Phthalates Content (%)								Conclusion
	DBP	BBP	DEHP	DIBP	DCHP	DINP	DnHP/DHEXP	DPP/DPEN	
#A1+A2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	PASS
#A3+A4+A5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	PASS
#A6+A7+A8	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	PASS
#A9+A10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	PASS
Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	-

List of Phthalates:

Chemical Name	CAS No.	Chemical Name	CAS No.
Dibutyl phthalate (DBP)	84-74-2	Dicyclohexyl phthalate (DCHP)	84-61-7
Butyl benzyl phthalate (BBP)	85-68-7	Di-iso-nonyl phthalate (DINP)	28553-12-0/ 68515-48-0
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	Di-n-hexyl phthalate (DnHP/DHEXP)	84-75-3
Di-iso-butyl phthalate (DIBP)	84-69-5	Dipentyl phthalate (DPP/DPENP)	131-18-0

Method: The test is conducted according to the US CPSC Standard Operation Procedure for Determination of Phthalates, January 17, 2018 (CPSC-CH-C1001-09.4)

Remark: 1. Phthalates were not tested for this material as the material is claimed by applicant to be PP, PE, HIPS, ABS, GPPS, MIPS or SHIPS. These types of materials are exempted by CPSC for Phthalates test.

Note: % = percentage
“<” = less than
“>” = more than

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

NOTE:

If there is question or concern regarding the above results, please contact us via email
garrison.yin@cpt.eurofinscn.com

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