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检测
TESTING
CNAS L1114

TEST REPORT

Client: ThinkFun Inc.
Address: 1321 Cameron St, Alexandria Virginia USA
22314

REPORT NO: C80421849
DATE: June 4, 2018

Attn: Kirsten Bloxom

Sample Description: Shadows In the Forest
Quantity Submitted: 4 pieces
Style No.: 1052
PO No.: Not provided
Labeled Age Grading: Ages 8 to Adult
Test Age Grading: Ages 8+
Destination: US, Europe, Canada
Country of Origin: China
Date(s) of samples received: May 4, 2018
Date of Test Period: May 4, 2018 – June 4, 2018

TEST METHOD & RESULTS: Please refer to next page(s)

CONCLUSION: Please refer to page two and three (2 and 3)

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ASTM F963-17 Physical & Mechanical Requirements	PASS
16 CFR 1500 Physical & Mechanical Requirements	PASS
Canada Toys Regulations SOR/2011-17 And Regulations Amending Toys Regulations SOR/2016-195 & SOR/2016-302 Physical And Mechanical Requirements	PASS
EN 71-1:2014 Mechanical & Physical Properties	PASS
EN62115:2005+A12:2015 (Electric toys –Safety)	PASS
ASTM F963-17 Flammability Requirements	PASS
16 CFR 1500.3 (c) (6) (vi) / 16 CFR 1500.44 Flammability Requirements	PASS
Canada Toys Regulations SOR/2011-17 And Regulations Amending Toys Regulations SOR/2016-195 & SOR/2016-302 Flammability Requirements (Cellulose Nitrate And Celluloid)	PASS
Flammability Requirements For Textile Fibres: SOR/2016-194	NOT APPLICABLE#
EN 71-2:2011+A1:2014 Flammability	PASS
Soluble Migrated Elements [ASTM F963-17 Section 4.3.5.1 (2), 4.3.5.2 (2)(b) & 8.3]	PASS
Total Lead Content In Substrates [ASTM F963-17 Section 4.3.5.2 (2)(a)]	PASS
Total Lead Content In Paints And Surface Coatings [ASTM F963-17 Section 4.3.5.1(1)]	PASS
Determination Of Migration Of Cadmium [ASTM F963-17 Clause 4.3.5.2(2c)]	NOT APPLICABLE#
Total Lead Content In Paints And Surface Coatings [16 CFR 1303]	PASS
Total Lead Content In Substrates [Consumer Product Safety Improvement Act Of 2008 Section 101]	PASS
Total Lead Content In Paints And Surface Coatings [Consumer Product Safety Improvement Act Of 2008 Section 101]	PASS
Total Lead Content In Substrates [California Proposition 65 Settlements Of Alameda Superior Court, RG07356892]	PASS
Total Lead Content In Paint And Surface Coatings [California Proposition 65 Settlements Of Alameda Superior Court, RG07356892]	PASS
Total Lead Content In Substrates [California Proposition 65 Settlements Of Alameda Superior Court, BG07350969, RG08378050 And San Francisco Superior Court 07-462991]	NOT APPLICABLE#
Total Lead Content In Paint And Surface Coatings [California Proposition 65 Settlements Of Alameda Superior Court, BG07350969, RG08378050 And San Francisco Superior Court 07-462991]	NOT APPLICABLE#
Total Phthalates Content [California Proposition 65 Settlements Of County Of Sacramento Case Number 07AS04683, And The Alameda Superior Court Case Numbers BG07350969, RG08367601, RG07351032 And RG08378050]	NOT APPLICABLE#
Prohibition Of Children's Toys And Child Care Articles Containing Specified Phthalates [16 CFR 1307.3]	PASS
Total Mercury Content In Batteries [United States Public Law 104-142, 110 Stat. 1329 & State Legislation]	PASS
Total Heavy Metals In Packaging [NERC Heavy Metals in Packaging Wastes]	PASS
Specific Substance In Surface Coatings [Canada Toys Regulations (SOR/2011-17), Toxicological Hazards, Section 23 With SOR/2016-195 & SOR/2016-302 Amendment]	PASS
Total Lead And Mercury In Surface Coatings [Canada Toys Regulations (SOR/2011-17) With SOR/2016-195 & SOR/2016-302 Amendment, Toxicological Hazards, Section 23 And SOR/2016-193 Surface Coating Materials Regulations]	PASS
Total Lead Content [Canada Consumer Products Containing Lead (Contact With Mouth) Regulations (SOR/2016-171 Amending SOR/2010-273)]	NOT APPLICABLE#
Total Phthalates Content In Toys And Child Care Articles [Phthalates Regulation SOR/2016-188 Phthalates Content]	PASS
Total Mercury Content In Batteries [SOR/2014-254 Products Containing Mercury Regulations]	PASS

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Total Cadmium Content In Plastic [Point 23 Of The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) With Further Amendment]	PASS
Total Cadmium Content In Surface Coating [Point 23 Of The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) With Further Amendment]	PASS
Total Phthalates Content In Toys And Child Care Articles [Point 51, 52 Of The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) With Further Amendment]	PASS
Total Heavy Metals Content In Batteries [Directive 2013/56/EU Amending Battery Directive 2006/66/EC]	PASS
Total Heavy Metals In Packaging [94/62/EC]	PASS

#: There is no component on the submitted test samples under the testing scopes.

For and on behalf of :

UL VS Shanghai Limited Shenzhen Branch

David Mo

David Mo
Assistant Manager- Toys Department

Lulu Yang

Lulu Yang
Senior Technical Officer
Chemical Department

Tina Zhao

Tina Zhao
Engineer -
Hardline Testing Department

Important Notes :

The results relate only to the samples tested.

The below tests are except from the ILAC-MRA/CNAS accreditation scope:

1. Total Heavy Metals In Packaging [NERC Heavy Metals in Packaging Wastes]
2. Total Heavy Metals In Packaging [94/62/EC]
3. Total Cadmium Content In Surface Coating [Point 23 Of The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) With Further Amendment]
4. Total Phthalates Content [California Proposition 65 Settlements Of County Of Sacramento Case Number 07AS04683, And The Alameda Superior Court Case Numbers BG07350969, RG08367601, RG07351032 And RG08378050]
5. Prohibition Of Children's Toys And Child Care Articles Containing Specified Phthalates [16 CFR 1307.3]
6. Total Heavy Metals Content In Batteries [Directive 2013/56/EU Amending Battery Directive 2006/66/EC]
7. Total Mercury Content In Batteries [United States Public Law 104-142, 110 Stat. 1329 & State Legislation]
8. Total Lead And Mercury In Surface Coatings [Canada Toys Regulations (SOR/2011-17) With SOR/2016-195 & SOR/2016-302 Amendment, Toxicological Hazards, Section 23 And SOR/2016-193 Surface Coating Materials Regulations]

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TEST RESULTS

1. MECHANICAL AND PHYSICAL TEST

1.1 AS PER ASTM STANDARD CONSUMER SAFETY SPECIFICATION FOR TOYS SAFETY F963-17

The following clauses are identified to be applicable:

Age grading for testing : Ages 8+
Samples Quantity : 1piece

Clause	Test Items	Assessment
4.1	Material(visual check on cleanness)	P
4.3.7	Stuffing Materials (Visual Check On Contaminations)	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	P
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, Such As Helmets, Hats And Goggles	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	P
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

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Clause	Test Items	Assessment
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	Yoyo 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	P
6	Instructional Literature	P
7	Producer's Markings	P

REMARK: P = Pass N/A=Not Applicable

#: Section 4.7 Accessible Edges and Section 4.9 Accessible Points are only applicable for toys for children under 96 months, and the assessment was for reference only.

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1.2 AS PER 16 CFR 1500.50, THE HAZARDS OF SHARP POINTS, SHARP EDGE AND SMALL PARTS ARE ASSESSED BOTH BEFORE AND AFTER APPLICABLE USE AND ABUSE TESTS:

The following clauses are identified to be applicable:

Age grading for testing : Ages 8+
Samples Quantity : 1piece

	<u>TEST ITEMS</u>	<u>SHARP POINT</u>	<u>SHARP EDGE</u>	
		(1500.48)	(1500.49)	
	As received	P [#]	P [#]	
1500.121	Labeling requirement; prominence, placement, and conspicuousness			NA
1500.19	Misbranded toys and other articles intended for use by children			NA

REMARK: P = Pass N/A=Not Applicable

#: The Mechanical and Physical Tests Requirement of U.S Consumer Products Safety Commission for Toys and Articles intended for use by the children Specified in U.S Code of Federal Regulations Title 16, Part 1500.48 and 1500.49 are only for children under 8 years of age. Only As Received Sharp Point and Sharp Edge were assessed, and the assessment was for reference only.

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1.3 AS PER CANADA TOYS REGULATIONS SOR/2011-17 and REGULATIONS AMENDING TOYS REGULATION SOR/2016-195 &SOR/2016-302

The following clauses are identified to be applicable:

Age grading for testing : Ages 8+
Samples Quantity : 1 piece

(A)	Test Items	Assessment
3	General -- English and French bilingual statement	NA
4	Packaging	P
	<u>Mechanical hazard</u>	
7	Small parts	NA
8	Exposed Metal Edges	P
9	Ends	P
10	Exposed Plastic Parts	P
11	Exposed Wooden Surfaces, Edges And Corners	NA
12	Glass	NA
13	Fasteners	P
14	Folding Mechanisms, Bracket Or Bracing	NA
15	Spring-Wound Driving Mechanism	NA
16	Projectile Component, Other Than A Rocketry Component.	NA
17	Toys Which A Child Can Enter And Which Can Be Closed By A Lid Or Door	NA
18	Toys Which Are Stationary And Intended To Bear The Weight Of A Child	NA
19	Impulsive noise	NA
20	Thermal hazards	NA
	<u>Dolls and soft toys</u>	NA
28	Fastening to attach parts, clothing or ornamentation.	NA
29	Stuffing materials	NA
(A)	Clean And Free From Vermin	NA
(B)	Free From Hard And Sharp Foreign Matter	NA
30	Squeaker, reed, valve or other similar device	NA
31	Eyes or nose	NA
35	Plant seeds-Noise	NA
36	Plant seeds-Stuffing material	NA
37	Pull and push toys	NA
38	Toy steam engines	NA
40	Rattle	NA
41	Elastic	NA
42	Yo-yo type balls	NA

Remark: P=Pass N/A=Not Applicable

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1.4 PHYSICAL AND MECHANICAL TESTS OF THE MOST STRINGENT REQUIREMENTS OF THE FOLLOWING STANDARDS:

A) EN71-1:2014

Applicant Specified Age Grading for testing:

Ages 8+

Sample size:

1 piece

Clause	Test Items	Assessment
4.1	Material cleanliness	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	P
4.8	Points and metallic wires	P
4.9	Protruding parts	NA
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	NA
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toys kites and other flying toys	NA
4.14.1	Toys which a child can enter	NA
4.14.2	Masks and helmets	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toy using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
5.1	General Requirements – Toys intended for children under 36 months	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid-filled toys	NA

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5.6	Speed limitation of electrically driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	NA
7.1	General	NA
7.2	Warning on toys not intended for children under 36 months	NA
7.5	Warnings on functional toys and their packaging	NA

Remarks: P=Pass NA=Not Applicable
Warnings and safety instructions shall be written in the languages easily understood by consumers of the country in which the toy is to be sold. Only English version was review.

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TEST REPORT

Client: ThinkFun Inc.
Address: 1321 Cameron St, Alexandria Virginia USA
22314

REPORT NO: C80421849
DATE: June 4, 2018

TEST RESULTS

1.5 EN 62115: 2005 + A12:2015 (Electric Toys-Safety)

<u>Clause no.</u>	<u>Test Description</u>	<u>Result</u>
1	Scope	--
2	Normative references	--
3	Definitions	--
4	General requirement	Pass
5	General conditions for the tests	--
6	Criteria for reduced testing	--
7	Marking and instructions	Pass
8	Power input	Not Applicable
9	Heating and abnormal operation	Pass
10	Electric strength at operating temperature	Pass
11	Moisture resistance	Pass
12	Electric strength at room temperature	Pass
13	Mechanical strength	Pass
14	Construction	Pass
15	Protection of cords and wires	Pass
16	Components	Pass
17	Screws and connections	Pass
18	Creepage distances and clearances	Pass
19	Resistance to heat and fire	Pass
20	Radiation, toxicity and similar hazards	Refer to relative test report
Annex E	Toys incorporating lasers and light-emitting diodes	Pass
Annex ZC	Toys generating Electromagnetic Fields (EMF)	Not Applicable

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TEST RESULTS

Remarks:

- a. Age grade for testing requirement is 8+.
- b. Only English was checked on the packaging.
- c. As the unit was found that the battery voltage was less than 2.5V, 1 second after a 1Ω resistor had been connected to the terminals, and different polarity except those in battery compartment could not be bridged at the same time, the unit was considered to comply with clause 10, 11 (except 11.1), 12, 15(except 15.2), 17(except 17.1 for battery compartments intended to contain button cell batteries), 18(except the addition distances for computer toys) and 19 directly without further test.
- d. The toy contained LED and the LED meet requirements for class 1 in accordance with IEC 60825-1. Reference test report.

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TEST RESULTS

2. FLAMMABILITY TEST

2.1 AS PER ASTM STANDARD ON SAFETY OF TOYS F963-17 ANNEX A5:

Samples Quantity: 1piece
Requirement: Burning rate should not exceed 0.1 inch per second along the major axis.
Results: The sample was tested to be ignited but extinguished.

2.2 AS PER U.S. CODE OF FEDERAL REGULATIONS TITLE 16 PART 1500.44 FOR RIGID AND PLIABLE SOLIDS DEFINED UNDER 16 CFR 1500.3 SECTION (C) (6) (VI):

Samples Quantity: 1piece
Requirement: Burning rate should not exceed 0.1 inch per second along the major axis.
Results: The sample was tested to be ignited but extinguished.

2.3 AS PER CANADA TOYS REGULATIONS SOR/2011-17 AND REGULATIONS AMENDING TOYS REGULATIONS SOR/2016-195 & SOR/2016-302 SECTION 21 (CELLULOSE NITRATE AND CELLULOID)

Requirement: Celluloid (cellulose nitrate) and materials with the same behaviour in fire (except when used in varnish or paint) shall not be used in the manufacture of toys.
Results: The submitted sample(s) complied with this requirement.

2.4 AS PER EUROPEAN STANDARD ON SAFETY OF TOYS EN 71-2:2011 + A1:2014 SECTION 4.1 GENERAL REQUIREMENT (CELLULOSE NITRATE):

Requirement: Celluloid (cellulose nitrate), except when used in varnish, paint or glue, or in balls of the type used for table tennis or similar games, and materials with the same behaviour in fire as celluloid, shall not be used in the manufacture of toys.
Results: The submitted sample(s) complied with this requirement.

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TEST RESULTS

3. CHEMICAL TESTS:

Tested Sample ID	Product Description / Sample Group Desc.
001	Shadows In the Forest
002	White/grey paper board with transparent plastic film and inaccessible multicolor coatings (box) (From 001)
003	Black plastic sheet (tray) (From 001)
004	Transparent plastic (poly-bag for die) (From 001)
005	Transparent plastic adhesive tape (joint on poly-bag for die) (From 001)
006	Transparent plastic (poly-bag for shadowing masks) (From 001)
007	Transparent plastic sheet (insulating strip for battery of mini lantern) (From 001)
008	White/grey paper board with transparent plastic film and inaccessible multicolor coatings (frame of hiding places) (From 001)
009	Multicolor coatings (instruction manual) (From 001)
010	Black coating (die) (From 001)
011	Multicolor coatings with black coating (instruction manual, die) (From 001)
012	White/grey paper board with transparent plastic film and inaccessible multicolor coatings (hiding places) (From 001)
013	White/deep grey paper board with transparent plastic film and inaccessible multicolor coatings (folded game board) (From 001)
014	Dull white plastic (die) (From 001)
015	Dark grey plastic (shadowlings) (From 001)
016	Bright white plastic (shadowing masks) (From 001)
017	Red plastic (body/battery cover of mini lantern) (From 001)
018	White plastic (body of mini lantern) (From 001)
019	Black plastic (switch of mini lantern) (From 001)
020	Silvery metal (staple joint of instruction manual) (From 001)
021	Translucent plastic with transparent plastic sheet (LED light inside body/washer on screw inside battery case of mini lantern) (inaccessible) (From 001)
022	Red soft plastic (wire covering inside body of mini lantern) (inaccessible) (From 001)
023	Brown PCB (switch inside body of mini lantern) (inaccessible) (From 001)
024	Button cell (size: LR44) (mini lantern) (From 001)
025	White/grey paper board with transparent plastic film and inaccessible multicolor coatings (frame/body of hiding places) (From 001)

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TEST REPORT

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REPORT NO: C80421849
DATE: June 4, 2018

TEST RESULTS

3.1 Soluble Migrated Elements [ASTM F963-17 Section 4.3.5.1 (2), 4.3.5.2 (2)(b) & 8.3]

Test Method : ASTM F963-17 Section 8.3

Elements	Requirement (Max.)	Sample, mg/kg	
		009	010**
*Sample weight (g)		--	--
Antimony (Sb)	60	<6.0	--
Arsenic (As)	25	<2.5	--
Barium (Ba)	1000	<6.0	--
Cadmium (Cd)	75	<6.0	--
Chromium (Cr)	60	<6.0	--
Lead (Pb)	90	<6.0	--
Mercury (Hg)	60	<6.0	--
Selenium (Se)	500	<6.0	--
Rating		PASS	--

Remark:
 -All concentrations expressed in milligrams per kilogram and unadjusted unless otherwise stated
 -“<” means less than
 -Method for determination of each soluble element present: Antimony(Sb), Arsenic(As), Barium(Ba), Cadmium(Cd), Chromium(Cr), Lead(Pb), Mercury(Hg) and Selenium(Se) are determined by Inductively Coupled Plasma Spectroscopy.
 -*Sample weight between 0.01g - 0.1g should be reported in according to ASTM F963-17
 -** Test specimen less than 10 mg is not required to test soluble migrated elements according to ASTM F963-17 Section 8.3.3.6 (2).
 -The test results only apply to the items tested.
 -Any deviation from the standard method was specified as follow:

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TEST REPORT

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REPORT NO: C80421849
DATE: June 4, 2018

TEST RESULTS

3.2 Total Lead Content In Substrates [ASTM F963-17 Section 4.3.5.2 (2)(a)]

Test Method : CPSC-CH-E1001-08.3 (Metal Substrates) / CPSC-CH-E1002-08.3 Section IA & IIA (Non-Metal Substrates)

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg			
			012	013	014+015+016	017+018+019
Lead (Pb)	100	20	<20	<20	<20	<20
Rating			PASS	PASS	PASS	PASS

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg
			020
Lead (Pb)	100	20	<20
Rating			PASS

Remark:
-All concentrations expressed in milligrams per kilogram of Tested Parts
-“<” means less than
-Method for determination of Lead (Pb) is determined by Inductively Coupled Plasma Spectroscopy.
-The test results only apply to the items tested.

3.3 Total Lead Content In Paints And Surface Coatings [ASTM F963-17 Section 4.3.5.1(1)]

Test Method : CPSC-CH-E1003-09.1 (Paints and Surface Coatings)

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg
			011
Lead (Pb)	90	10	<10
Rating			PASS

Remark:
-All concentrations expressed in milligrams per kilogram of Tested Parts
-“<” means less than
-Method for determination of Lead (Pb) is determined by Inductively Coupled Plasma Spectroscopy.
-The test results only apply to the items tested.

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TEST RESULTS

3.4 Total Lead Content In Substrates [Consumer Product Safety Improvement Act Of 2008 Section 101]

Test Method: CPSC-CH-E1001-08.3 (Metal Substrates) / CPSC-CH-E1002-08.3 Section IA & IIA (Non-Metal Substrates)

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg			
			012	013	014+015+016	017+018+019
Lead (Pb)	100	20	<20	<20	<20	<20
Rating			PASS	PASS	PASS	PASS

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg			
			020			
Lead (Pb)	100	20	<20			
Rating			PASS			

Remark:
-All concentrations expressed in milligrams per kilogram of Tested Parts
-“<” means less than
-Method for determination of Lead (Pb) is determined by Inductively Coupled Plasma Spectroscopy.
-The test results only apply to the items tested.

3.5 Total Lead Content In Paints And Surface Coatings [Consumer Product Safety Improvement Act Of 2008 Section 101]

Test Method : CPSC-CH-E1003-09.1 (Paints and Surface Coatings)

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg
			011
Lead (Pb)	90	10	<10
Rating			PASS

Remark:
-All concentrations expressed in milligrams per kilogram of Tested Parts
-“<” means less than
-Method for determination of Lead (Pb) is determined by Inductively Coupled Plasma Spectroscopy.
-The test results only apply to the items tested.

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DATE: June 4, 2018

TEST RESULTS

3.6 Total Lead Content In Paints And Surface Coatings [16 CFR 1303]

Test Method: CPSC-CH-E1003-09.1 (Paints and Surface Coatings)

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg			
			011			
Lead (Pb)	90	10	<10			
Rating			PASS			
<i>Remark:</i> -All concentrations expressed in milligrams per kilogram of Tested Parts -“<” means less than -Method for determination of Lead (Pb) is determined by Inductively Coupled Plasma Spectroscopy. -The test results only apply to the items tested.						

3.7 Total Lead Content In Substrates [California Proposition 65 Settlements Of Alameda Superior Court, RG07356892]

Test Method: CPSC-CH-E1001-08.3 (Metal Substrates) / CPSC-CH-E1002-08.3 Section IA & IIA (Non-Metal Substrates)

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg			
			012	013	014+015+016	017+018+019
Lead (Pb)	100	20	<20	<20	<20	<20
Rating			PASS	PASS	PASS	PASS
Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg			
			020			
Lead (Pb)	100	20	<20			
Rating			PASS			
<i>Remark:</i> -All concentrations expressed in milligrams per kilogram of Tested Parts -“<” means less than -Method for determination of Lead (Pb) is determined by Inductively Coupled Plasma Spectroscopy. -The test results only apply to the items tested.						

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3.8 Total Lead Content In Paint And Surface Coatings [California Proposition 65 Settlements Of Alameda Superior Court, RG07356892] Test Method: CPSC-CH-E1001-09.1 (Paint or Surface Coatings)

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg
			011
Lead (Pb)	90	10	<10
Rating			PASS
<i>Remark:</i> -All concentrations expressed in milligrams per kilogram of Tested Parts -“<” means less than -Method for determination of Lead (Pb) is determined by Inductively Coupled Plasma Spectroscopy. -The test results only apply to the items tested.			

3.9 Prohibition Of Children’s Toys And Child Care Articles Containing Specified Phthalates [16 CFR 1307.3] Test Method : CPSC-CH-C1001-09.4

Analyte	CAS No.	Requirement (Max.)	Reporting Limit	Sample, %		
				011	012	013
Dibutyl Phthalate, DBP	84-74-2	0.1	0.005	<0.005	<0.005	<0.005
Benzyl Butyl Phthalate, BBP	85-68-7	0.1	0.005	<0.005	<0.005	<0.005
Diethylhexyl Phthalate, DEHP	117-81-7	0.1	0.005	<0.005	<0.005	<0.005
Diisononyl Phthalate, DINP	28553-12-0 /68515-48-0	0.1	0.005	<0.005	<0.005	<0.005
Diisobutyl Phthalate, DIBP	84-69-5	0.1	0.005	<0.005	<0.005	<0.005
Dipentyl Phthalate, DPENP	131-18-0	0.1	0.005	<0.005	<0.005	<0.005
Di-n-hexyl Phthalate, DHEXP	84-75-3	0.1	0.005	<0.005	<0.005	<0.005
Dicyclohexyl Phthalate, DCHP	84-61-7	0.1	0.005	<0.005	<0.005	<0.005
Rating				PASS	PASS	PASS
<i>Remark:</i> -All concentrations expressed in percentage (%) -“<” means less than -Method for determination of Phthalates are determined by Gas Chromatography Mass Selective Detector (GC-MSD) -The test results only apply to the items tested.						

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TEST REPORT

Client: ThinkFun Inc.
Address: 1321 Cameron St, Alexandria Virginia USA
22314

REPORT NO: C80421849
DATE: June 4, 2018

TEST RESULTS

3.10 Total Heavy Metals In Packaging [NERC Heavy Metals in Packaging Wastes]

Test Method: In-house Method

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg			
			002	003	004	005
Lead (Pb)	100	10	<10	<10	<10	<10
Cadmium (Cd)	100	10	<10	<10	<10	<10
Chromium VI (Cr VI)	100	10	<10	<10	<10	<10
Mercury (Hg)	100	10	<10	<10	<10	<10
Sum	100	40	<40	<40	<40	<40
Rating			PASS	PASS	PASS	PASS

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg		
			006	007	008
Lead (Pb)	100	10	<10	<10	<10
Cadmium (Cd)	100	10	<10	<10	<10
Chromium VI (Cr VI)	100	10	<10	<10	<10
Mercury (Hg)	100	10	<10	<10	<10
Sum	100	40	<40	<40	<40
Rating			PASS	PASS	PASS

Remark:
 -All concentrations expressed in milligrams per kilogram
 -“<” means less than
 -Method for determination of Lead (Pb), Cadmium(Cd), Chromium VI (Cr VI) and Mercury(Hg) are determined by Inductively Coupled Plasma Spectroscopy.
 -The test results only apply to the items tested.

3.11 Total Mercury Content In Batteries [United States Public Law 104-142, 110 Stat. 1329 & State Legislation]

Test Method : In-house method

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/button cell
			024
Mercury (Hg)	25	5	<5.0
Rating			PASS

Remark:
 -All concentrations expressed in milligrams per button cell
 -“<” means less than
 -Method for determination of Mercury (Hg) is determined by Inductively Coupled Plasma Mass Spectrometry.
 -The test results only apply to the items tested.

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TEST REPORT

Client: ThinkFun Inc.
Address: 1321 Cameron St, Alexandria Virginia USA
22314

REPORT NO: C80421849
DATE: June 4, 2018

TEST RESULTS

3.12 Specific Substance In Surface Coatings [Canada Toys Regulations (SOR/2011-17), Toxicological Hazards, Section 23 With SOR/2016-195 & SOR/2016-302 Amendment]

Test Method : Health Canada Product Safety Reference Manual, Book 5, Part B, Method C-03

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg
			011
Antimony (Sb)	1000	50	<50
Arsenic (As)	1000	50	<50
Barium (Ba)	1000	50	<50
Cadmium (Cd)	1000	50	<50
Selenium (Se)	1000	50	<50
Rating			PASS
<i>Remark:</i> -All concentrations expressed in milligrams per kilogram -“<” means less than -Method for determination of each soluble element present: Antimony(Sb), Arsenic(As), Barium(Ba), Cadmium(Cd) and Selenium(Se) are determined by Inductively Coupled Plasma Spectroscopy. -The test results only apply to the items tested.			

3.13 Total Lead And Mercury In Surface Coatings [Canada Toys Regulations (SOR/2011-17) With SOR/2016-195 & SOR/2016-302 Amendment, Toxicological Hazards, Section 23 And SOR/2016-193 Surface Coating Materials Regulations]

Test Method : In-house method reference with CPSC-CH-E1003-09.1

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg
			011
Lead (Pb)	90	10	< 10
Mercury (Hg)	10	10	< 10
Rating			PASS
<i>Remark:</i> -All concentrations expressed in milligrams per kilogram -“<” means less than -Method for determination of each element present: Lead (Pb) and Mercury (Hg) are determined by Inductively Coupled Plasma Mass Spectrometry. -The test results only apply to the items tested.			

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TEST REPORT

Client: ThinkFun Inc.
Address: 1321 Cameron St, Alexandria Virginia USA
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REPORT NO: C80421849
DATE: June 4, 2018

TEST RESULTS

3.14 Total Phthalates Content In Toys And Child Care Articles [Phthalates Regulation SOR/2016-188 Phthalates Content]

Test Method : CPSC-CH-C1001-09.3

Analyte	CAS No.	Requirement (Max.)	Reporting Limit	Sample.%		
				011	012	013
Dibutyl Phthalate, DBP	84-74-2	0.1	0.005	<0.005	<0.005	<0.005
Benzyl Butyl Phthalate, BBP	85-68-7	0.1	0.005	<0.005	<0.005	<0.005
Diethylhexyl Phthalate, DEHP	117-81-7	0.1	0.005	<0.005	<0.005	<0.005
Diisononyl Phthalate, DINP	68515-48-0	0.1	0.005	<0.005	<0.005	<0.005
Di-n-octyl Phthalate, DNOP	117-84-0	0.1	0.005	<0.005	<0.005	<0.005
Diisodecyl Phthalate, DIDP	26761-40-0	0.1	0.005	<0.005	<0.005	<0.005
Rating				PASS	PASS	PASS
<i>Remark:</i> -All concentrations expressed in percentage (%) -“<” means less than -Method for determination of Phthalates are determined by Gas Chromatography Mass Selective Detector (GC-MSD) -Vinyl in toys and child care articles need to determine DEHP, DBP, or BBP. Vinyl in any part of a toy or child care article that can be placed in the mouth of a child under four years of age: DINP, DIDP, or DNOP -The test results only apply to the items tested.						

3.15 Total Mercury Content In Batteries [SOR/2014-254 Products Containing Mercury Regulations]

Test Method : In-house method

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg
			024
Mercury (Hg)	5	1	< 1.0
Rating			PASS
<i>Remark:</i> -All concentrations expressed in milligrams per kilograms -“<” means less than -Method for determination of Mercury (Hg) is determined by Inductively Coupled Plasma Mass Spectrometry. -The test results only apply to the items tested.			

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REPORT NO: C80421849
DATE: June 4, 2018

TEST RESULTS

3.16 Total Cadmium Content In Plastic [Point 23 Of The Annex XVII Of The Regulation (EC) no. 1907/2006 (REACH) With Further Amendment] Test Method : EN 1122:2001

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg			
			002	003	004	005
Cadmium (Cd)	100	20	<20	<20	<20	<20
Rating			PASS	PASS	PASS	PASS

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg			
			006	007	013	014+015+016
Cadmium (Cd)	100	20	<20	<20	<20	<20
Rating			PASS	PASS	PASS	PASS

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg			
			017+018+019	021+022	023	025
Cadmium (Cd)	100	20	<20	<20	<20	<20
Rating			PASS	PASS	PASS	PASS

Remark:
-All concentrations expressed in milligrams per kilograms
-“<” means less than
-Method for determination of cadmium (Cd) is determined by Inductively Coupled Plasma Spectroscopy.
-The test results only apply to the items tested.

3.17 Total Cadmium Content In Surface Coating [Point 23 Of The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) With Further Amendment] Test Method : In-house method reference with CPSC-CH-E1003-09.1

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg
			011
Cadmium (Cd)	1000	10	<10
Rating			PASS

Remark:
-All concentrations expressed in milligrams per kilograms
-“<” means less than
-Method for determination of cadmium (Cd) is determined by Inductively Coupled Plasma Spectroscopy.
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REPORT NO: C80421849
DATE: June 4, 2018

TEST RESULTS

3.18 Total Heavy Metals Content In Batteries [Directive 2013/56/EU Amending Battery Directive 2006/66/EC]

Test Method : In-house method

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg	
			024	
Lead (Pb)	40	10	<10	
Cadmium (Cd)	20	10	<10	
Mercury (Hg)	5	1	< 1.0	
Rating			PASS	
<p><i>Remark:</i> -All concentrations expressed in milligrams per kilograms -“<” means less than -Method for determination of elements are determined by Inductively Coupled Plasma Mass Spectrometry. -The test results only apply to the items tested. -Lead (Pb) is labeling requirement if the amount exceed 0.004% -Batteries, accumulators and button cells containing more than 0,0005 % mercury, more than 0,002 % cadmium or more than 0,004 % lead, shall be marked with the chemical symbol for the metal concerned: Hg, Cd or Pb</p>				

3.19 Total Heavy Metals In Packaging [94/62/EC]

Test Method : In-house Method

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg			
			002	003	004	005
Lead (Pb)	100	10	<10	<10	<10	<10
Cadmium (Cd)	100	10	<10	<10	<10	<10
Chromium VI (Cr VI)	100	10	<10	<10	<10	<10
Mercury (Hg)	100	10	<10	<10	<10	<10
Sum	100	40	<40	<40	<40	<40
Rating			PASS	PASS	PASS	PASS

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REPORT NO: C80421849
DATE: June 4, 2018

TEST RESULTS

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg		
			006	007	008
Lead (Pb)	100	10	<10	<10	<10
Cadmium (Cd)	100	10	<10	<10	<10
Chromium VI (Cr VI)	100	10	<10	<10	<10
Mercury (Hg)	100	10	<10	<10	<10
Sum	100	40	<40	<40	<40
Rating			PASS	PASS	PASS
<i>Remark:</i> -All concentrations expressed in milligrams per kilogram -“<” means less than -Method for determination of Lead (Pb), Cadmium(Cd), Chromium VI (Cr VI) and Mercury(Hg) are determined by Inductively Coupled Plasma Spectroscopy. -The test results only apply to the items tested.					

3.20 Total Phthalates Content In Toys And Child Care Articles [Point 51, 52 Of The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) With Further Amendment]

Test Method : CPSC-CH-C1001-09.3

Analyte	CAS No.	Requirement (Max.)	Reporting Limit	Sample, %		
				011	012	013
Dibutyl Phthalate, DBP	84-74-2	0.1	0.005	<0.005	<0.005	<0.005
Benzyl Butyl Phthalate, BBP	85-68-7		0.005	<0.005	<0.005	<0.005
Diethylhexyl Phthalate, DEHP	117-81-7		0.005	<0.005	<0.005	<0.005
Sum of DBP, BBP & DEHP			0.005	<0.005	<0.005	<0.005
Diisononyl Phthalate, DINP	28553-12-0 /68515-48-0	0.1	0.005	<0.005	<0.005	<0.005
Di-n-octyl Phthalate, DNOP	117-84-0		0.005	<0.005	<0.005	<0.005
Diisodecyl Phthalate, DIDP	26761-40-0/ 68515-49-1		0.005	<0.005	<0.005	<0.005
Sum of DINP, DNOP & DIDP			0.005	<0.005	<0.005	<0.005
Rating				PASS	PASS	PASS

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TEST RESULTS

Analyte	CAS No.	Requirement (Max.)	Reporting Limit	Sample, %	
				014+015+016	017+018+019
Dibutyl Phthalate, DBP	84-74-2	0.1	0.005	<0.005	<0.005
Benzyl Butyl Phthalate, BBP	85-68-7		0.005	<0.005	<0.005
Diethylhexyl Phthalate, DEHP	117-81-7		0.005	<0.005	<0.005
Sum of DBP, BBP & DEHP			0.005	<0.005	<0.005
Diisononyl Phthalate, DINP	28553-12-0 / 68515-48-0	0.1	0.005	<0.005	<0.005
Di-n-octyl Phthalate, DNOP	117-84-0		0.005	<0.005	<0.005
Diisodecyl Phthalate, DIDP	26761-40-0 / 68515-49-1		0.005	<0.005	<0.005
Sum of DINP, DNOP & DIDP			0.005	<0.005	<0.005
Rating				PASS	PASS

Analyte	CAS No.	Requirement (Max.)	Reporting Limit	Sample, %	
				021+022	
Dibutyl Phthalate, DBP	84-74-2	0.1	0.005	<0.005	
Benzyl Butyl Phthalate, BBP	85-68-7		0.005	<0.005	
Diethylhexyl Phthalate, DEHP	117-81-7		0.005	<0.005	
Sum of DBP, BBP & DEHP			0.005	<0.005	

Remark:
 -All concentrations expressed in percentage (%)
 -“<” means less than
 -Method for determination of Phthalates are determined by Gas Chromatography Mass Selective Detector (GC-MSD)
 -Toys and child care articles need to determine DEHP, DBP, or BBP. Component in any part of a toy or child care article that can be placed in the mouth of a child: DINP, DIDP, or DNOP
 -The test results only apply to the items tested.

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DATE: June 4, 2018

Product Photo:



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