



中国认可  
国际互认  
检测  
TESTING  
CNAS L1114

# TEST REPORT

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

REPORT NO: C80951824  
DATE: September 27, 2018

Attn: Kirsten Bloxom

Sample Description: Back Spin  
Quantity Submitted: 1 piece  
Style No.: 5800  
PO No.: Not provided  
Labeled Age Grade: Ages 8 to adult  
Appropriate Age Grade: Ages 8+  
Tested Age Grade: Ages 8+  
Destination: USA, Europe, Canada  
Country of Origin: China  
Date(s) of samples received: August 21, 2018  
Date of Test Period: August 21, 2018 – September 27, 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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## CONCLUSION:

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 & SOR/2018-138 Physical And Mechanical Requirements	PASS
EN 71-1:2014 Mechanical & Physical Properties	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&SOR/2018-138 Flammability Requirements (Cellulose Nitrate And Celluloid)	PASS
EN 71-2:2011+A1:2014 Flammability	PASS
Flammability Requirements For Textile Fibres: SOR/2016-194	NOT APPLICABLE#
Soluble Migrated Elements [ASTM F963-17 Section 4.3.5.1 (2), 4.3.5.2 (2)(b) & 8.3]	NOT APPLICABLE#
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)]	NOT APPLICABLE#
Determination Of Migration Of Cadmium [ASTM F963-17 Clause 4.3.5.2(2c)]	NOT APPLICABLE#
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]	NOT APPLICABLE#
Total Lead Content In Paints And Surface Coatings [16 CFR 1303]	NOT APPLICABLE#
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]	NOT APPLICABLE#
Total Heavy Metals In Packaging [NERC Heavy Metals in Packaging Wastes]	PASS
Prohibition Of Children's Toys And Child Care Articles Containing Specified Phthalates [16 CFR 1307.3]	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#
Specific Substance In Surface Coatings [Canada Toys Regulations (SOR/2011-17), Toxicological Hazards, Section 23 With SOR/2016-195 & SOR/2016-302 & SOR/2018-138 Amendment]	NOT APPLICABLE#
Total Lead And Mercury In Surface Coatings [Canada Toys Regulations (SOR/2011-17) With SOR/2016-195 & SOR/2016-302 & SOR/2018-138 Amendment, Toxicological Hazards, Section 23 And SOR/2016-193 Surface Coating Materials Regulations]	NOT APPLICABLE#
Total Phthalates Content In Toys And Child Care Articles [Phthalates Regulation SOR/2016-188 Phthalates Content]	NOT APPLICABLE#
Total Lead Content [Canada Consumer Products Containing Lead Regulations (SOR/2018-83)]	PASS

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## CONCLUSION:

Migration Of Certain Elements [EN71-3: 2013 + A3:2018 Under 2009/48/EC Toy Safety Directive]	NOT APPLICABLE#
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]	NOT APPLICABLE#
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]	NOT APPLICABLE#
Determination of Azo Colorants [Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No. 43 And Appendix 8 As Amended By Commission Regulation (EC) No. 552/2009]	NOT APPLICABLE#
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*

*Lulu Yang*

David Mo  
Assistant Manager- Toys Department

Lulu Yang  
Senior Technical Officer  
Chemical Department

### Important Notes :

The results relate only to the samples tested .

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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 : 3 pieces

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	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, 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	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

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## TEST RESULTS

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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## TEST RESULTS

### 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 : 3 pieces

	<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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## TEST RESULTS

### 1.3 AS PER CANADA TOYS REGULATIONS SOR/2011-17 and REGULATIONS AMENDING TOYS REGULATION SOR/2016-195 & SOR/2016-302 & SOR/2018-138

The following clauses are identified to be applicable:

Age grading for testing : Ages 8+  
Samples Quantity : 3 pieces

(A)	Test Items	Assessment
3	General -- English and French bilingual statement	NA
4	Packaging	NA
	Mechanical hazard	
7	Small parts	NA
8	Exposed Metal Edges	NA
9	Ends	P
10	Exposed Plastic Parts	P
11	Exposed Wooden Surfaces, Edges And Corners	NA
12	Glass	NA
13	Fasteners	NA
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
	Dolls and soft toys	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
43	Magnetic Toys	NA
44	Warning for Magnet Kit	NA

Remark: P=Pass N/A=Not Applicable

The test isn't in CNAS accreditation scope

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## TEST RESULTS

### 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: **3 pieces**

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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Clause	Test Items	Assessment
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

Name and address of manufacturer or his authorized representative or importer into the community should be affixed on the toy and its packaging.

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 reviewed.

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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: 1 piece  
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: 1 piece  
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 & SOR/2018-138 SECTION 21 (CELLULOSE NITRATE AND CELLULOID)

Requirement: Celluloid (cellulose nitrate) and materials with the same behavior 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.  
Remark: The test isn't in CNAS accreditation scope

#### 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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SZ-FAF-001 (2017-10-12)



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检测  
TESTING  
CNAS L1114

# TEST REPORT

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

REPORT NO: C80951824  
DATE: September 27, 2018

## TEST RESULTS

### 3. CHEMICAL TESTS:

Tested Sample ID	Product Description / Sample Group Desc.
001	Back Spin
002	Black plastic (spinning disc) (From 001)
003	Red plastic (ball & slot) (From 001)
004	Light green plastic (ball & slot) (From 001)
005	Yellow plastic (ball & slot) (From 001)
006	Pink-purple plastic (ball & slot) (From 001)
007	Orange plastic (ball & slot) (From 001)
008	Light blue plastic (ball & slot) (From 001)
009	Dark blue plastic (ball & slot) (From 001)
010	Dark green plastic (ball & slot) (From 001)
011	Purple plastic (ball & slot) (From 001)
012	White paper sheet with multicolor coatings (instruction sheet) (From 001)
013	Transparent plastic (blister) (From 001)
014	Transparent plastic adhesive tape (joint on spinning disc) (From 001)
015	Transparent plastic adhesive tape (joint on box) (From 001)
016	White paper card with multicolor coatings (box) (From 001)

#### 3.1 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			
			002+003+004	005+006+007	008+009	010+011
Lead (Pb)	100	10	<10	<10	<10	<10
<b>Rating</b>			PASS	PASS	PASS	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 REPORT

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

REPORT NO: C80951824  
DATE: September 27, 2018

## TEST RESULTS

### 3.2 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			
			002+003+004	005+006+007	008+009	010+011
Lead (Pb)	100	10	<10	<10	<10	<10
<b>Rating</b>			PASS	PASS	PASS	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 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			
			002+003+004	005+006+007	008+009	010+011
Lead (Pb)	100	10	<10	<10	<10	<10
<b>Rating</b>			PASS	PASS	PASS	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 REPORT

Client: ThinkFun Inc.  
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USA 22314

REPORT NO: C80951824  
DATE: September 27, 2018

## TEST RESULTS

### 3.4 Total Heavy Metals In Packaging [NERC Heavy Metals in Packaging Wastes]

Test Method: In-house Method

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg		
			012	013+014+015	016
Lead (Pb)	100	10	<10	<10	<10
Cadmium (Cd)	100	5	<5	<5	<5
Chromium VI (Cr VI)	100	10	<10	<10	<10
Mercury (Hg)	100	5	<5	<5	<5
Sum	100	30	<30	<30	<30
<b>Rating</b>			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. The test isn't in CNAS accreditation scope:					

### 3.5 Total Lead Content [Canada Consumer Products Containing Lead Regulations (SOR/2018-83)]

Test Method: In-house method reference with CPSC-CH-E1002-08.3 / CPSC-CH-E1001-08.3 / CPSC-CH-E1003-09.1

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg			
			002+003+004	005+006+007	008+009	010+011
Lead (Pb)	90	10	< 10	< 10	< 10	< 10
<b>Rating</b>			PASS	PASS	PASS	PASS
<i>Remark:</i> -All concentrations expressed in milligrams per kilogram -“<” means less than -Method for determination of each element present: Lead (Pb) is determined by Inductively Coupled Plasma Spectroscopy. -The test results only apply to the items tested. The test isn't in CNAS accreditation scope						

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# TEST REPORT

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DATE: September 27, 2018

## TEST RESULTS

### 3.6 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 Method B

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg			
			002+003+004	005+006+007	008+009	010+011
Cadmium (Cd)	100	10	<10	<10	<10	<10
<b>Rating</b>			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.

### 3.7 Total Heavy Metals In Packaging [94/62/EC] Test Method : In-house Method

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg		
			012	013+014+015	016
Lead (Pb)	100	10	<10	<10	<10
Cadmium (Cd)	100	5	<5	<5	<5
Chromium VI (Cr VI)	100	10	<10	<10	<10
Mercury (Hg)	100	5	<5	<5	<5
Sum	100	30	<30	<30	<30
<b>Rating</b>			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.  
*The test isn't in CNAS accreditation scope:*

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### Product Photo:



\*\*\*\*\* THE END \*\*\*\*\*

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SZ-FAF-001 (2017-10-12)

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