



TEST REPORT

Client:	ThinkFun Inc.	REPORT NO.:	C81381943
Address:	1321 Cameron St, Alexandria Virginia USA 22314	UL ORDER NO.:	--
		DATE:	January 9, 2020

Attn:	Natalie Tapia
Sample Description:	Moon Spinner
Quantity Submitted:	1 piece
Style No.:	76388
P.O. No.:	Not provided
Labeled Age Grade:	8+
Appropriate Age Grade:	Ages 8+
Tested Age Grade:	Ages 8+
Destination:	USA, Europe, Canada
Country of Origin:	China
Date(s) of samples received:	December 11, 2019
Date of Test Period:	December 11, 2019 – January 9, 2020

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

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

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



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CONCLUSION:

ASTM F963-17 Physical & Mechanical Requirements	PASS
16 CFR 1500 Physical & Mechanical Requirements	PASS
EN71-1:2014+A1:2018 Mechanical & Physical Properties	PASS
Canada Toys Regulations SOR/2011-17 Physical And Mechanical Requirements	PASS
ASTM F963-17 Flammability Requirements	PASS
16 CFR 1500.3 (c) (6) /1500.44 Flammability Requirements	PASS
EN 71-2:2011 + A1:2014 Flammability Test	PASS
Canada Toys Regulations SOR/2011-17 Flammability Requirements (Cellulose Nitrate And Celluloid)	PASS
Flammability Requirements For Textile Fibres: SOR/2016-194	NOT APPLICABLE#
Total Heavy Metals In Packaging [NERC Heavy Metals in Packaging Wastes]	PASS
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 Paints And Surface Coatings [ASTM F963-17 Section 4.3.5.1(1)]	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 [Consumer Product Safety Improvement Act Of 2008 Section 101]	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 [16 CFR 1303]	NOT APPLICABLE#
Prohibition Of Children's Toys And Child Care Articles Containing Specified Phthalates [16 CFR 1307.3]	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 Lead Content In Substrates [California Proposition 65 Settlements Of Alameda Superior Court, BG07350969, RG08378050 And San Francisco Superior Court 07-462991]	PASS
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#
Total Lead And Mercury In Surface Coatings [Canada Toys Regulations (SOR/2011-17)	NOT APPLICABLE#
Toxicological Hazards, Section 23 And SOR/2016-193 Surface Coating Materials Regulations]	
Specific Substance In Surface Coatings [Canada Toys Regulations (SOR/2011-17) Toxicological Hazards, Section 23]	NOT APPLICABLE#
Total Lead Content [Canada Consumer Products Containing Lead Regulations (SOR/2018-83)]	PASS
Total Phthalates Content In Toys And Child Care Articles [Phthalates Regulation SOR/2016-188 Phthalates Content]	NOT APPLICABLE#
Total Mercury Content [SOR/2014-254 Products Containing Mercury Regulations]	PASS
Migration Of Certain Elements [EN71-3: 2013 + A3:2018 Under 2009/48/EC Toy Safety Directive]	NOT APPLICABLE#
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 Cadmium Content In Plastic [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) And Amending Commission Regulation (EU) 2018/2005]	NOT APPLICABLE#
Total Lead Content In Surface Coating [EU 2015/628 Amending Point 63 Of The Annex XVII Regulation (EC) No. 1907/2006 (REACH)]	NOT APPLICABLE#
Total Lead Content In Substrate [EU 2015/628 Amending Point 63 of The Annex XVII Regulation (EC) No. 1907/2006 (REACH)]	PASS
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#
Determination Of Pentachlorophenol As Per Client's Specification [Point 22 Of The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) With Further Amendment]	NOT APPLICABLE#

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 Address: 1321 Cameron St, Alexandria Virginia UL ORDER NO.: --
 USA 22314 DATE: January 9, 2020

CONCLUSION:

Determination of Organotin Compounds [Point 20 of The Annex XVII of The Regulation (EC) No. 1907/2006 (REACH) With Further Amendment]	NOT APPLICABLE#
Determination Of Benzene Content [Point 5 Of The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) And Further Amendment]	PASS
Determination Of Polycyclic Aromatic Hydrocarbon [Point 50 Of The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) With Further Amendment]	PASS
Determination of Polycyclic Aromatic Hydrocarbon In Category I [AfPS GS 2014:01 PAK]	PASS
Determination Of HBCDD As Per Client's Specification.	PASS
Determination of Flame Retardant Content [(EU) 2019/1021 On Persistent Organic Pollutants]	PASS
Determination of PBB & PBDEs Content As Per Client's Specification [(EU) No. 757/2010 And (EU) No.2016/293 Amending Regulation (EC) No 850/2004 On Persistent Organic Pollutants]	NOT APPLICABLE#
Flame Retardant (PBBs & PBDEs) As Per Client's Specification with Reference to Chem.VerbotsV Regulation.	NOT APPLICABLE#
Determination Of Flame Retardant Content As Per Client's Specification [Bedarfsgegenständeverordnung Annex 1 (to § 3)	NOT APPLICABLE#
Substances which may not be used in the manufacture or treatment of certain consumer goods]	
Determination Of Flame Retardant Content As Per Client's Specification [Point 4,7,8,45, 67 Of The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) With Further Amendment]	NOT APPLICABLE#
Total NP & NPEO Content [Point 46 Of The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) With Further Amendment]	NOT APPLICABLE#
Determination Of Vinyl Chloride Content [Point 2 Of The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) With Further Amendment]	NOT APPLICABLE#
Determination Of Formamide Content [EU 2015/2115 Amending 2009/48/EC Toy Safety Directive]	NOT APPLICABLE#
Determination Of Residual Dimethylformamide [Client's Specification]	NOT APPLICABLE#
Determination Of Short Chain Chlorinated Paraffins [(EU) 2019/1021 On Persistent Organic Pollutants]	NOT APPLICABLE#
Determination Of Chlorophenol As Per Client's Specification [The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) With Further Amendment]	NOT APPLICABLE#
Determination Of Dimethyl fumarate (DMFu) Content [Point 61 Of The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) With Further Amendment]	NOT APPLICABLE#
Determination of Aniline Content As Per Client's Specification [Regulation (EC) No. 1907/2006 (REACH) with Further Amendment]	NOT APPLICABLE#
Determination Of Pentachlorophenol As Per Client's Specification [German Ordinance on Prohibition of Chemical (ChemVerbotsV) Attachment 15]	NOT APPLICABLE#
Total Heavy Metals In Packaging [94/62/EC]	PASS
ROHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU	NOT APPLICABLE#
-Screening by X-ray fluorescence spectroscopy and confirmed by wet chemical method of Lead, Cadmium, Mercury, Chromium and Brominated flame retardants (PBB & PBDE)	
Total Phthalates Content [ROHS Directive 2015/863/EU Amending Directive 2011/65/EU Annex II]	NOT APPLICABLE#
Determination of Carcinogenic And Allergenic Dyes [DIN54231:2005]	NOT APPLICABLE#
Colour Fastness To Rubbing [EN ISO 105-X12:2016]	NOT APPLICABLE#
Color Fastness To Perspiration [EN ISO 105-E04:2013]	NOT APPLICABLE#

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

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Note: The results relate only to the items tested.

For and on behalf of :
UL VS Shanghai Limited Shenzhen Branch



Stephen Chan
Operation Manager

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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 : 1 piece(s) x 1 style(s)

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

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TEST RESULTS

Clause	Test Items	Assessment
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	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 NA = 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 :1 piece(s) x 1 style(s)

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

REMARK: P = PASS NA = NOT APPLICABLE

#: The Mechanical and Physical Tests Requirements 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 PHYSICAL AND MECHANICAL TESTS OF THE MOST STRINGENT REQUIREMENTS OF THE FOLLOWING STANDARDS:

A)EN71-1:2014+A1:2018

The following clauses are identified to be applicable:

Age grading for testing : Ages 8+
Samples Quantity : 1 piece(s) x 1 style(s)

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 toys	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
4.26	Toy disguise costumes	NA
4.27	Flying toys	NA

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TEST RESULTS

Clause	Test Items	Assessment
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
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
5.15	Sledges with cords for pulling	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	P
7.1	General	P
7.2	Warning on toys not intended for children under 36 months	NA

Remark: 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 reviewed.

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TEST REPORT

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

REPORT NO.: C81381943
 UL ORDER NO.: --
 DATE: January 9, 2020

TEST RESULTS

1.4 AS PER CANADA TOYS REGULATIONS SOR/2011-17

The following clauses are identified to be applicable:

Age grading for testing : Ages 8+
 Samples Quantity : 1 piece(s) x 1 style(s)

(A)	Test Items	Assessment
3	General -- English and French bilingual statement	NA
4	Packaging	NA
	<u>Mechanical hazard</u>	
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
	<u>Dolls and soft toys</u>	
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

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TEST REPORT

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

REPORT NO.: C81381943
UL ORDER NO.: --
DATE: January 9, 2020

TEST RESULTS

2. FLAMMABILITY TEST

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

Samples Quantity: 1 piece(s) x 1 style(s)
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(s) x 1 style(s)
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 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.

2.4 AS PER CANADA TOYS REGULATIONS SOR/2011-17 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.

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TEST REPORT

Client: ThinkFun Inc.
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 USA 22314

REPORT NO.: C81381943
 UL ORDER NO.: --
 DATE: January 9, 2020

TEST RESULTS

3. CHEMICAL TESTS:

Tested Sample ID	Product Description / Sample Group Desc.
001	Moon Spinner
002	White paper box with multicolor coatings (box, card inside box) (From 001)
003	Transparent plastic cello-tape (joint of box) (From 001)
004	Transparent plastic (blister) (From 001)
005	Black plastic (body of moon spinner) (From 001)
006	Red plastic (body of moon spinner) (From 001)
007	Yellow plastic (body of moon spinner) (From 001)
008	Orange plastic (body of moon spinner) (From 001)
009	Green plastic (body of moon spinner) (From 001)
010	Blue plastic (body of moon spinner) (From 001)
011	Purple plastic (body of moon spinner) (From 001)

3.1 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
Lead (Pb)	100	10	<10	<10
Cadmium (Cd)	100	5	<5	<5
Chromium VI (Cr VI)	100	10	<10	<10
Mercury (Hg)	100	5	<5	<5
Sum	100	30	<30	<30
Rating			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.

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TEST REPORT

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 USA 22314

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 UL ORDER NO.: --
 DATE: January 9, 2020

TEST RESULTS

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

Test Method : In-house Method

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg	
			002	003+004
Lead (Pb)	100	10	<10	<10
Cadmium (Cd)	100	5	<5	<5
Chromium VI (Cr VI)	100	10	<10	<10
Mercury (Hg)	100	5	<5	<5
Sum	100	30	<30	<30
Rating			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.				

3.3 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		
			005+006+007	008+009	010+011
Cadmium (Cd)	100	10	<10	<10	<10
Rating			PASS	PASS	PASS
<i>Remark:</i> -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.					

3.4 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		
			005+006+007	008+009	010+011
Lead (Pb)	100	10	<10	<10	<10
Rating			PASS	PASS	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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 USA 22314

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 DATE: January 9, 2020

TEST RESULTS

**3.5 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		
			005+006+007	008+009	010+011
Lead (Pb)	100	10	<10	<10	<10
Rating			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.

**3.6 Total Lead Content In Substrates [California Proposition 65 Settlements Of Alameda Superior Court, BG07350969, RG08378050 And San Francisco Superior Court 07-462991]
 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		
			005+006+007	008+009	010+011
Lead (Pb)	600	10	<10	<10	<10
Rating			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.

**3.7 Total Lead Content [Canada Consumer Products Containing Lead Regulations (SOR/2018-83)]
 Test Method : In-house method reference with CPSC-CH-E1001-08.3 (Metal Substrates) / CPSC-CH-E1002-08.3 Section IA & IIA (Non-Metal Substrates) / CPSC-CH-E1003-09.1 (Paints and Surface Coatings)**

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg		
			005+006+007	008+009	010+011
Lead (Pb)	90	10	< 10	< 10	< 10
Rating			PASS	PASS	PASS

Remark:
 -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.

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TEST REPORT

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USA 22314

REPORT NO.: C81381943
UL ORDER NO.: --
DATE: January 9, 2020

TEST RESULTS

3.8 Determination Of Benzene Content [Point 5 Of The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) And Further Amendment]

Test Method : Headspace followed GC-MSD analysis

Analyte	CAS No.	Requirement (Max)	Reporting Limit	Sample, mg/kg		
				005+006+007	008+009	010+011
Benzene	71-43-2	5	1	<1.0	<1.0	<1.0
Rating				PASS	PASS	PASS

Remark:

- All concentrations expressed in milligrams per kilogram of tested parts
- “<” means less than
- Method for determination of analyte are determined by GC-MSD
- 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.: C81381943
 UL ORDER NO.: --
 DATE: January 9, 2020

TEST RESULTS

3.9 Determination Of Polycyclic Aromatic Hydrocarbon [Point 50 Of The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) With Further Amendment]

Test Method : AfPS GS 2014:01 PAK

Analyte	CAS No.	Requirement (Max)	Reporting Limit	Sample, mg/kg			
				005	006	007	008
Benzo[a]pyrene	50-32-8	0.5	0.1	<0.1	<0.1	<0.1	<0.1
Benzo[e]pyrene	192-97-2	0.5	0.1	<0.1	<0.1	<0.1	<0.1
Benzo[a]anthracene	56-55-3	0.5	0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	218-01-9	0.5	0.1	<0.1	<0.1	<0.1	<0.1
Benzo[b]fluoranthene	205-99-2	0.5	0.1	<0.1	<0.1	<0.1	<0.1
Benzo[j]fluoranthene	205-82-3	0.5	0.1	<0.1	<0.1	<0.1	<0.1
Benzo[k]fluoranthene	207-08-9	0.5	0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo[a,h]anthracene	53-70-3	0.5	0.1	<0.1	<0.1	<0.1	<0.1
Rating				PASS	PASS	PASS	PASS

Analyte	CAS No.	Requirement (Max)	Reporting Limit	Sample, mg/kg		
				009	010	011
Benzo[a]pyrene	50-32-8	0.5	0.1	<0.1	<0.1	<0.1
Benzo[e]pyrene	192-97-2	0.5	0.1	<0.1	<0.1	<0.1
Benzo[a]anthracene	56-55-3	0.5	0.1	<0.1	<0.1	<0.1
Chrysene	218-01-9	0.5	0.1	<0.1	<0.1	<0.1
Benzo[b]fluoranthene	205-99-2	0.5	0.1	<0.1	<0.1	<0.1
Benzo[j]fluoranthene	205-82-3	0.5	0.1	<0.1	<0.1	<0.1
Benzo[k]fluoranthene	207-08-9	0.5	0.1	<0.1	<0.1	<0.1
Dibenzo[a,h]anthracene	53-70-3	0.5	0.1	<0.1	<0.1	<0.1
Rating				PASS	PASS	PASS

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DATE: January 9, 2020

TEST RESULTS

Remark:

- All concentrations expressed in milligrams per kilogram
- “<” means less than
- Method for determination of analyte are determined by GC-MSD
- The test results only apply to the items tested.
- Articles shall not be placed on the market for supply to the general public, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use, contain more than 1 mg/kg (0,0001 % by weight of this component) of any of the listed PAHs
- Toys, including activity toys, and childcare articles, shall not be placed on the market, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use, contain more than 0,5 mg/kg (0,00005 % by weight of this component) of any of the listed PAHs.

3.10 Total Mercury Content [SOR/2014-254 Products Containing Mercury Regulations]

Test Method : In-house method

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg		
			005+006+007	008+009	010+011
Mercury (Hg)	1000	10	< 10	< 10	< 10
Rating			PASS	PASS	PASS

Remark:

- All concentrations expressed in milligrams per kilograms
- “<” means less than
- Method for determination of Mercury (Hg) is determined by Inductively Coupled Plasma Mass Spectrometry.
- a product, other than a battery, that has a mercury concentration of 0.1% or less by weight in homogeneous materials;
- The test results only apply to the items tested.

3.11 Total Lead Content In Substrate [EU 2015/628 Amending Point 63 of The Annex XVII Regulation (EC) No. 1907/2006 (REACH)]

Test Method : In-house method

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg		
			005+006+007	008+009	010+011
Lead	500	10	<10	<10	<10
Rating			PASS	PASS	PASS

Remark:

- All concentrations expressed in milligrams per kilogram of Tested Parts
- “<” means less than
- Method for determination of lead is determined by ICP-OES
- The test results only apply to the items tested.
- Total Lead content exceed 500mg/kg need to perform the leaching test to verify the lead migration exceed 0,05 µg/cm2 per hour

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TEST REPORT

Client: ThinkFun Inc.
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 DATE: January 9, 2020

TEST RESULTS

3.12 Determination of Polycyclic Aromatic Hydrocarbon In Category I [AfPS GS 2014:01 PAK]

Test Method : AfPS GS 2014:01 PAK

Analyte	CAS No.	Requirement (Max)	Reporting Limit	Sample, mg/kg			
				005	006	007	008
Naphthalene	91-20-3	1	0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	208-96-8	1	0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	83-32-9		0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	86-73-7		0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	85-01-8		0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	120-12-7		0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	206-44-0		0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	129-00-0		0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	56-55-3		0.2	0.1	<0.1	<0.1	<0.1
Chrysene	218-01-9	0.2	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b) fluoranthene	205-99-2	0.2	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	207-08-9	0.2	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	50-32-8	0.2	0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	53-70-3	0.2	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	191-24-2	0.2	0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)pyrene	193-39-5	0.2	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(e)pyrene	192-97-2	0.2	0.1	<0.1	<0.1	<0.1	<0.1
Benzo(j)fluoranthene	205-82-3	0.2	0.1	<0.1	<0.1	<0.1	<0.1
SUM		1	0.1	<0.1	<0.1	<0.1	<0.1
Rating				PASS	PASS	PASS	PASS

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



TEST REPORT

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

REPORT NO.: C81381943
 UL ORDER NO.: --
 DATE: January 9, 2020

TEST RESULTS

Analyte	CAS No.	Requirement (Max)	Reporting Limit	Sample, mg/kg		
				009	010	011
Naphthalene	91-20-3	1	0.1	<0.1	<0.1	<0.1
Acenaphthylene	208-96-8	1	0.1	<0.1	<0.1	<0.1
Acenaphthene	83-32-9		0.1	<0.1	<0.1	<0.1
Fluorene	86-73-7		0.1	<0.1	<0.1	<0.1
Phenanthrene	85-01-8		0.1	<0.1	<0.1	<0.1
Anthracene	120-12-7		0.1	<0.1	<0.1	<0.1
Fluoranthene	206-44-0		0.1	<0.1	<0.1	<0.1
Pyrene	129-00-0		0.1	<0.1	<0.1	<0.1
Benzo(a)anthracene	56-55-3		0.2	0.1	<0.1	<0.1
Chrysene	218-01-9	0.2	0.1	<0.1	<0.1	<0.1
Benzo(b) fluoranthene	205-99-2	0.2	0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	207-08-9	0.2	0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	50-32-8	0.2	0.1	<0.1	<0.1	<0.1
Dibenzo(ah)anthracene	53-70-3	0.2	0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	191-24-2	0.2	0.1	<0.1	<0.1	<0.1
Indeno(123-cd)pyrene	193-39-5	0.2	0.1	<0.1	<0.1	<0.1
Benzo(e)pyrene	192-97-2	0.2	0.1	<0.1	<0.1	<0.1
Benzo(j)fluoranthene	205-82-3	0.2	0.1	<0.1	<0.1	<0.1
SUM		1	0.1	<0.1	<0.1	<0.1
Rating				PASS	PASS	PASS
<p>Remark: -All concentrations expressed in milligrams per kilogram -“<” means less than -Method for determination of analyte are determined by GC-MSD -The test results only apply to the items tested. -Category 1: Materials, that are intended to be taken in the mouth or materials in toys with proper and long-term skin contact (longer than 30 seconds) -Category II: Materials, not covered in Cat.1, with foreseeable contact to skin longer than 30 seconds (long-term skin contact) or repeated short-term skin contacts -Category III: Materials that do not fall in Cat. 1 or 2, with foreseeable contact to skin up to 30 seconds (short-term skin contact)</p>						

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



TEST REPORT

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

REPORT NO.: C81381943
 UL ORDER NO.: --
 DATE: January 9, 2020

TEST RESULTS

3.13 Determination Of HBCDD As Per Client's Specification.

Test Method : In-house method

Analyte	Client's Requirement (Max.)	Reporting Limit	Sample, mg/kg		
			005+006+007	008+009	010+011
HBCDD	Not Detected	5	< 5.0	< 5.0	< 5.0
Rating			PASS	PASS	PASS

Remark:

- All concentrations expressed in milligrams per kilogram of Tested Parts
- “<” means less than
- Method for determination of analyte is determined by GC-MSD
- hexabromocyclododecane (HBCDD)
- Not Detected denotes "less than reporting limit (5 mg/kg)"

3.14 Determination of Flame Retardant Content [(EU) 2019/1021 On Persistent Organic Pollutants]

Test Method : In-house method

Analyte	Requirement (Max.)	Reporting Limit	Sample, mg/kg		
			005+006+007	008+009	010+011
Hexabromocyclododecane	100	5	< 5.0	< 5.0	< 5.0
Rating			PASS	PASS	PASS

Remark:

- All concentrations expressed in milligrams per kilogram of Tested Parts
- “<” means less than
- Method for determination of analyte is determined by GC-MSD
- Not Detected denotes "less than reporting limit (5 mg/kg)"

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



TEST REPORT

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

REPORT NO.: C81381943
UL ORDER NO.: --
DATE: January 9, 2020

Product Photo:



***** THE END *****

***** Page 21 of 21 *****

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

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Deliverables. We will provide you with a report outlining: (i) your instructions and request for Services accepted by us, (ii) Your Requirements used in providing the Services, (iii) the Services performed, and (iv) the results of those Services. We are under no obligation to refer to or report on any facts or circumstances which are outside your specific instructions received and accepted by us.
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- Our Findings.** We do not guarantee that our opinions or findings will be recognized or accepted by third parties.
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工作产品的所有权: 贵司将拥有根据任何报价文件提供给贵司的测试报告或其他材料。应贵司要求，我们可为我们存档以及为贵司和第三方创建报告之目的，保留测试报告和其他材料的副本。
- Web Services.** We may provide you with certain website tools and related services, including the ability to offer services online through a website (collectively, the "Web Services"). The Web Services are provided to you as a convenience and are provided on an "as is, as available" basis. By using the Web Services, you acknowledge and agree that no data or content transmitted over our networks, the Internet, or wirelessly, or through or in connection with the Web Services, is guaranteed to be secure or free from unauthorized intrusion, and that data stored by us, our affiliates, or our service providers may be deleted, modified, or damaged. You acknowledge that if you wish to protect your transmission of data or files to us, it is your responsibility to use a secure encrypted connection to communicate with and use the Web Services. Your use of the Web Services is at your sole risk and is subject to any terms of use applicable to such Web Services. Web Services are included in the definition of Services above.
网络服务: 我们可为贵司提供某些网站工具和相关的服务，包括通过网站在我们提供服务的能力 (以下合称"网络服务")。网络服务是为了方便起见并且在"依照原样、提供时即可用"的基础上提供给贵司的，通过使用网络服务，贵司承认并同意，通过我们网络、互联网或无线传输的数据或内容，无论通过网络传输的数据内容，或所传输的网络服务相关的数据库内容，不保证安全或免受未经授权的人员访问，并且，由我们、我们的关联方或我们的服务提供商存储的数据可能会遭删除、修改或损坏。贵司承认，如果贵司希望保护贵司向我们传输的数据或文件，贵司有责任使用安全的数据连接来与网络服务进行通信和使用网络服务。贵司使用网络服务需自行承担风险，并适用于适用于该等网络服务的任何使用条款的约束。网络服务包含在上述的定义之中。
- Confidentiality.** We will not disclose information obtained in confidence ("Confidential Information") except to our subsidiaries, affiliates, or subcontractors, without your prior written authorization. Confidential Information will not include information: (a) already known to us, (b) publicly available, or (c) subsequently acquired by us from other sources without a breach of these Terms and Conditions, (d) disclosure that is necessary to perform the Services, (e) required to be produced by law or government order, or accreditation authority, or (f) related to a product bearing a UL Mark that should be disclosed to our affiliates pursuant to another agreement with you.
保密: 我们不会在未经贵司授权的情况下披露任何"保密信息"，除非经贵司事先书面同意。保密信息不包括以下信息: (a) 我们已知悉的信息; (b) 可公开获得的信息; (c) 我们随后在不过本条款及条件的情况下从其他渠道获得的信息; (d) 为了提供服务而有必要披露的信息; (e) 法律或政府的命令或认证机构要求提供的信息; 或 (f) 与带有UL标志的某一产品相关的且根据与贵司订立的另一份协议应当向我们或我们的关联方披露的信息。
- Samples.** If we require sample examination, you will ship samples to us at your expense. Upon completion of testing, the samples will be destroyed, unless other arrangements are made for return of the samples at your expense. You acknowledge that testing and sample preparation may damage or destroy the sample(s), for which we will not be liable.
样品: 如果我们要求对样品检验，贵司将由贵司承担，样品会被销毁。除非贵司做出安排自费将样品运回贵司，我们承认，测试和样品准备工作可能会对损坏或破坏样品，对此我们并不承担责任。
- LIMITATION OF LIABILITY. OUR LIABILITY FOR ANY CLAIMS FOR LOSS, DAMAGE, OR EXPENSE OF ANY NATURE AND HOWSOEVER ARISING FOR ANY BREACH OF CONTRACT AND/OR ANY FAILURE TO EXERCISE APPROPRIATE SKILL AND CARE BY US WILL UNDER NO CIRCUMSTANCE EXCEED THE FEES RECEIVED FOR THE SPECIFIC SERVICES WHICH GIVE RISE TO SUCH CLAIMS. UNDER NO CIRCUMSTANCE WILL WE HAVE ANY LIABILITY FOR INDIRECT, CONSEQUENTIAL, INCIDENTAL, SPECIAL, EXEMPLARY, OR PUNITIVE DAMAGES OF ANY NATURE AND KIND, INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, GOODWILL, USE, DATA, FUTURE BUSINESS, OR PRODUCTION. CONFIDENTIAL INFORMATION ENTERED INTO BY YOU OR OTHER INTANGIBLE LOSSES (EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES), UNDER NO CIRCUMSTANCE WILL WE BE LIABLE TO YOU FOR ANY CLAIMS FOR LOSS, DAMAGE, OR EXPENSE UNLESS SUCH CLAIMS BROUGHT UNDER SECTION 24 (DISPUTES) WITHIN TWELVE MONTHS AFTER THE DATE OF THE PERFORMANCE BY US OF THE SERVICES WHICH GIVE RISE TO THE CLAIM OR, IN THE EVENT OF ANY ALLEGED NON-PERFORMANCE, WITHIN TWELVE MONTHS OF THE DATE WHEN SUCH SERVICES SHOULD HAVE BEEN COMPLETED.
责任限制: 我们可在任何情况下以及由于我们违约和/或未能适当行使技能和谨慎而造成的任何损失、损害或费用承担责任。在任何情况下我们都不会超过我们为履行该等服务的义务而收取的服务费。在任何情况下，我们都不会对任何性质的任何间接的、后果性的、或有形的、特殊的、惩罚性的或惩罚性的损害赔偿承担责任，包括但不限于: 利润损失、商誉损失、人身伤害、数据损失、未来业务或生产损失、或任何其他无形损失。即使我们已被告知该等损害可能性的情况下亦不例外。在任何情况下，我们均不因为任何损失、损害或费用索赔而对贵司承担责任，除非该等索赔是在我们提供并接收该等服务的日期之后十二个月内，或在任何情况下是贵司提供该等服务的日期之后的十二个月内，依据第24条 (争议) 条款的。**
- Indemnification.** You will defend, hold harmless, and indemnify us and our officers, directors, trustees, employees, agents, or subcontractors against all claims made by any third party for loss, damage, or expense arising out of these Terms and Conditions, including without limitation, the performance or non-performance of any Services or the Web Services.
赔偿: 对于任何第三方因本条款及条件 (包括但不限于任何服务或网络服务的提供或不提供) 引起的损失、损害或费用而提出的任何索赔，贵司将为我们及我们的管理人员、董事、受托人、雇员、代理或分包商进行抗辩，使我司及我们的管理人员、董事、受托人、雇员、代理或分包商免受损害，并对我司及我们的管理人员、董事、受托人、雇员、代理或分包商进行赔偿。
- Waiver.** Any failure by a party to insist upon the performance of any section of these Terms and Conditions will not constitute a waiver of any rights under these Terms and Conditions or future performance of that section.
弃权: 一方不坚持履行本条款及条件的任何一个条款的，并不构成对本条款及条件项下的任何权利的放弃，或对该条款的未来履行的放弃。
- No Third Party Beneficiaries.** The parties intend that no provisions of these Terms and Conditions will in any way bind or benefit any third party or the public at large and that no third party will have any rights or cause of action under these Terms and Conditions. In particular, in the event Singapore law governs these Terms and Conditions pursuant to Section 23 (Governing Law), a person or entity who is not a party to these Terms and Conditions will have no right under the Contracts (Rights of Third Parties) Act (Chapter 53B) to enforce any term of these Terms and Conditions, regardless of whether such person or entity has been identified by name, as a member of a class, or as answering a particular description.
无第三方受益人: 双方希望，本条款及条件的任何规定都不会以任何方式约束或有益于任何第三方或一般公众，并且，任何第三方都不会在本条款及条件项下拥有任何权利或诉权。尤其是，如果本条款及条件依据第23条 (适用法律) 适用新加坡的法律管辖，则非本条款及条件一方的个人或实体将无权根据 (台湾) (第三权利) 法案 (第53B章) 强制执行本条款及条件的任何规定，无论该人或实体是否系通过姓名/名称，作为某一阶段的成员还是作为回应特定描述而被定义的。
- No Assignment.** Neither party may assign any of its rights or obligations under these Terms and Conditions to any other person without the other party's written authorization. However, we may, upon written notice, assign our rights and obligations under these Terms and Conditions to any of our affiliates or subsidiaries.
不得转让: 任何一方不得在未经另一方书面授权的情况下，将其在本条款及条件项下的任何权利或义务转让给他人。但是，我们可经书面通知，将我们在本条款及条件项下的各项权利和义务转让给贵司的任何关联方或子公司。
- Subcontracting.** We may engage subcontractors for certain testing or other Services. All subcontractors will meet our current quality/qualification requirements and will comply with our requirements for confidentiality, conflicts of interest, and ethical standards.
分包: 我们可使用分包商进行某些测试或其他服务。所有分包商均需符合我们目前的资质要求，并需遵守我们可保密性、利益冲突和道德标准的要。
- Termination and Notice.** These Terms and Conditions will continue in effect until terminated by either party upon thirty days written notice or, in the event of your breach of these Terms and Conditions, immediately upon receipt of written notice to you. You will pay those fees and expenses incurred by us prior to termination. Notice to either party may be made by hand delivery, courier service, mail, facsimile, or e-mail transmission at the receiving party's designated principal place of business. Notice to us must be sent both to: UL Verification Services Pte. Ltd., Attn: President, 1 Maritime Square, Harbour Front Centre, #11-03, Singapore 099253 with copy to UL LLC, Attn: General Counsel at 333 Pingston Road, Northbrook, Illinois 60062. Notice will be effective upon receipt.
终止和通知: 本条款及条件将持续有效，直至任何一方经三十天书面通知终止，或在发生贵司违约的情况下，在贵司收到书面通知后立即终止。贵司将在终止前提供我们已发生的费用和开支。通知任何一方时，可通过手工递送、快递服务、邮递、传真或电子邮件方式发送至接收方指定的主要营业场所，发送至我们的通知，必须同时向地址发送: U L Verification Services Pte. Ltd, Attn: President, 1 Maritime Square, Harbour Front Centre, #11-03, Singapore 099253, 并同时向副本发送给如下地址: UL LLC, Attn: General Counsel at 333 Pingston Road, Northbrook, Illinois 60062。通知将收到之时生效。
- Governing Law.** These Terms and Conditions will be governed and interpreted by the laws of the State of Illinois, United States of America, except if: (i) UL Contracting Party's principal place of business is Asia, Australia, or New Zealand, then Singapore law, and (ii) UL Contracting Party's principal place of business is Europe, then Swiss law, with reference to the applicable jurisdiction's choice of law principles.
适用法律: 本条款及条件将适用美国伊利诺伊州的法律管辖，并据此进行解释 (但: (i) UL履约方的主要营业地在亚洲、澳大利亚或新西兰的，适用新加坡的法律并据此进行解释; (ii) UL履约方的主要营业地在欧洲的，适用瑞士的法律并据此进行解释)，并不涉及适用法律的法律选择原则。
- Disputes.** Any dispute or disagreement, other than nonpayment of fees, relating to these Terms and Conditions or the Services, will be settled by confidential, binding arbitration administered by the International Centre for Dispute Resolution of the American Arbitration Association ("AAA") pursuant to the AAA Commercial Arbitration Rules and the Procedures for Large, Complex Commercial Disputes. The arbitration venue will be Chicago, Illinois, except if: (i) UL Contracting Party's principal place of business is in Europe, the venue will be Geneva, Switzerland; and (ii) UL Contracting Party's principal place of business is in Asia, Australia, or New Zealand, the venue will be Singapore, Republic of Singapore. The arbitration will be conducted before a panel of three (3) arbitrators. The arbitration panel will be selected as follows: the parties will request a list of ten (10) arbitrators drawn from the AAA's panel of commercial arbitrators (who are experienced in and familiar with the AAA's Procedures for Large, Complex Commercial Disputes). From this list, both parties will each choose one arbitrator. After they have been notified of their panel selection, the two (2) arbitrators will agree on a third arbitrator from the list of ten (10), who will be the chair of the panel, and the panel will be final. The decision of the majority of the arbitrators will be the panel's decision. The arbitrators will not have the authority to add, change, or disregard any term of these Terms and Conditions to award incidental, consequential, or punitive damages (including, but not limited to, loss of use, unjust enrichment, and/or lost profits), or exceed the remedies provided by the limitation of liability of these Terms and Conditions. The panel's decision will be binding and judgment on the arbitration award may be entered by a court of competent jurisdiction. Arbitration will be the final remedy for any dispute between the parties arising out of these Terms and Conditions, provided, however, that nothing herein will prevent either party from seeking a court order for injunctive relief (in addition to other remedies) to stop or prevent misuse or misappropriation of its marks, confidential or proprietary information, or infringement of its intellectual property, in a court of law. All arbitrations will be conducted in English.
争议: 与本条款及条件服务有关的、除未支付费用外的任何争议或异议，都由由美国仲裁协会 (American Arbitration Association，以下简称"美仲裁") 的国际争议解决中心根据美仲裁的《商事仲裁规则》(Commercial Arbitration Rules) 和《大型、复杂商事争议程序》(Procedures for Large, Complex Commercial Disputes) 以保密、有约束力的仲裁方式进行解决。仲裁地为 (美国) 伊利诺伊州的芝加哥 (但: (i) UL履约方的主要营业地在欧洲的，仲裁地为瑞士的内瓦; (ii) UL履约方的主要营业地在亚洲、澳大利亚或新西兰的，仲裁地为新加坡共和国的新加坡)。仲裁将由三 (3) 名仲裁员组成的仲裁小组处理。仲裁小组的成员选择如下: 双方将各自选择一名仲裁员。这两名仲裁员在收到仲裁小组组成通知后，将从该十 (10) 名名单中商定第三名仲裁员，成为仲裁小组的组长。以最终决定仲裁小组的组成。多数仲裁员的决定将作为仲裁小组的最终决定。仲裁员无权追加、变更或无视本条款及条件的任何规定，以裁定或有形的、后果性的或惩罚性的损害赔偿 (包括但不限于使用商标、不当得利或权利损失)，或超出本条款及条件的责任限制所规定的救济。仲裁小组的裁决具有约束力。具有管辖权的法院的裁决可对仲裁员的决定进行更改。仲裁员将双方因本条款及条件而产生的任何争议的解决，但是，本条款及条件中的任何内容都不会阻止任何一方寻求 (作为其他救济之追加)，或提出任何信息或侵犯其知识产权。所有仲裁将以英文进行。
- Severability.** If any section of these Terms and Conditions is held invalid, void, or unenforceable for any reason and that section will be severed, and all other sections of these Terms and Conditions will remain valid and enforceable under applicable law.
可分割性: 如果本条款及条件的任何条款由于任何原因被认定为无效或不可强制执行，则该条款将被从本条款及条件中分割出去，而本条款及条件的所有其他条款将在适用法律范围内依然有效。
- Modifications.** These Terms and Conditions are the entire and complete agreement between the parties and supersede any other communications, representations, or agreements with respect to its subject matter. Under no circumstances will any printed, additional, or different terms and conditions on your requests for quotation, purchase orders, invoices, sales or marketing materials, emails, any acceptance communications, or other business documents apply to any Services or Quotation or bind us in any manner. Modifications that have not been made by us or that have not been accepted by us in a written or emailed confirmation from us are not accepted by us, and commencement of performance will not signify acceptance by us of any such modifications. Any such modifications are excluded from our agreement, and such modifications will not be a binding agreement on us.
修订: 本条款及条件可经我们书面、完整同意、取代于本条款及条件的任何其他文件。在任何情况下，贵司的修改、订单、发票、销售或营销材料、电子邮件、任何接受函或其他商业文件上的任何预先印好的、额外的或不同的条款及条件，也不会以任何方式对我们具有约束力，并非由我们可以书面方式或来自贵司的确认电子邮件接收的或未经我们书面方式或来自贵司的确认电子邮件接收的修改。任何该等修改一概从我们双方的合意之中予以排除，且该等修改不会对我们双方有约束力的合意。
- Order of Precedence.** Except for conflicts with Section 3 (Payment Terms), Section 5 (Estimated Schedule and Price) and Section 10 (Cancellation Fees), these Terms and Conditions will prevail over any conflicting terms of any conflicting terms of any Quotation.
优先顺序: 除非第3条 (支付条款)、第5条 (预估的时间和价格) 和第10条 (取消费) 冲突，本条款及条件将优先于任何报价文件中的任何冲突条款。
- Electronic Signatures.** These Terms and Conditions may be executed and delivered by facsimile, PDF, or by means of other electronic signature. Our electronic, digital, or hard copies of these Terms and Conditions, your acceptance, and Quotations as signed, or otherwise accepted, by you will be the true, complete, valid, authentic, and enforceable copies of these documents. You agree that you will not contest the admissibility or enforceability of our copies in a court or any proceeding arising out of such documents.
电子签名: 本条款、报价文件或可通过传真、PDF或其他电子方式签署和传递。我们可接受的、经贵司同意或以其他方式接受的、本条款及条件的电子版、数字版或印刷版。我们可接受的、贵司同意的、贵司接受的电子版、数字版或印刷版。我们可接受的、报价文件的电子版、数字版或印刷版。都是这些文件的真实、完整、有效、真实和可强制执行副本。贵司同意，贵司不会在法庭或过等文件引起的任何诉讼中，对我们的副本的可执行性或有效性为证据的可采纳性提出异议。
- Force Majeure.** Neither party will be liable for any failure or delay in the performance of its obligations due to fire, flood, earthquake, elements of nature, or acts of God, terrorism, riots, civil disorder, rebellions, or other similar cause beyond the reasonable control of the party affected, provided such default of duty: (i) could not have been prevented by reasonable precautions; (ii) cannot reasonably be circumvented; (iii) and the party hindered or delayed immediately notifies the other party describing the circumstance causing delay.
不可抗力: 任何一方由于火灾、洪水、地震、自然灾害或天灾、战争行为、恐怖主义、骚乱、叛乱或超出其合理控制范围的其他类似原因，而不履行或延迟履行其义务，该受影响的一方不对该等不履行或延迟履行的情况承担责任，但需满足以下前提: 该等不履行或延迟履行的情况 (i) 无法通过合理的预防措施防止; (ii) 无法被合理规避; 且 (iii) 该不履行或延迟履行的一方将造成不履行或延迟履行的情况立即通知了另一方。