



TEST REPORT

Supersede test report serial number C80201947

Client:	ThinkFun Inc.	REPORT NO.:	C80201947 R001
Address:	1321 Cameron St., Alexandria, Virginia USA 22314	UL ORDER NO.:	12810875
		DATE:	April 11, 2019

Attn:	Natalie Tapia
Sample Description:	Amaze
Quantity Submitted:	6 pieces
Style No.:	5820
PO No.:	Not provided
Labeled Age Grade:	Ages 8 - 98
Appropriate Age Grade:	Ages 8+
Tested Age Grade:	Ages 8+
Destination:	USA, Europe, Canada
Country of Origin:	China
Date(s) of samples received:	March 27, 2019
Date of Test Period:	March 27, 2019 – April 10, 2019

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

CONCLUSION: Please refer to page two and three (2 & 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
EN71-1:2014+A1:2018 Mechanical & Physical Properties	PASS
ASTM F963-17 Flammability Requirements	PASS
16 CFR 1500.3 (c) (6) (vi) /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 Test	PASS
Flammability Requirements For Fabric: ASTM F963-17, Annex A6	NOT APPLICABLE#
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]	PASS
Total Lead Content In Paints And Surface Coatings [ASTM F963-17 Section 4.3.5.1(1)]	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 [16 CFR 1303]	PASS
Total Lead Content In Paints And Surface Coatings [Consumer Product Safety Improvement Act Of 2008 Section 101]	PASS
Total Lead Content In Substrates [Consumer Product Safety Improvement Act Of 2008 Section 101]	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, RG 07356892]	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#
Prohibition Of Children's Toys And Child Care Articles Containing Specified Phthalates [16 CFR 1307.3]	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 Regulations (SOR/2018-83)]	PASS
Total Phthalates Content In Toys And Child Care Articles [Phthalates Regulation SOR/2016-188 Phthalates Content]	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]	PASS
Total Heavy Metals In Packaging [94/62/EC]	PASS
Total Cadmium Content In Plastic [Point 23 Of The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) With Further Amendment]	PASS

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	USA 22314	DATE:	April 11, 2019

CONCLUSION:

Total Cadmium Content In Surface Coating [Point 23 Of The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) With Further Amendment]	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#
Migration Of Certain Elements [EN71-3: 2013 + A3:2018 Under 2009/48/EC Toy Safety Directive]	NOT APPLICABLE#
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 Pentachlorophenol [Point 22 Of The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) With Further Amendment]	PASS
Determination Of Pentachlorophenol[German Ordinance on Prohibition of Chemical (ChemVerbotsV) Attachment 15]	PASS
Determination Of Benzene Content [Point 5 Of The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) And Further Amendment]	PASS
Determination Of HBCDD As Per Client's Specification.	PASS
Determination of PBB & PBDEs Content [(EU) No. 757/2010 And (EU) No.2016/293 Amending Regulation (EC) No 850/2004 On Persistent Organic Pollutants]	PASS
Flame Retardant (PBBs & PBDES) As Per Client's Specification with Reference to Chem.VerbotsV Regulation.	PASS
Determination Of Flame Retardant Content [Point 4,7,8,44,45 Of The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) With Further Amendment]	PASS
Determination Of Flame Retardant Content [Bedarfsgegenständeverordnung Annex 1 (to § 3) Substances which may not be used in the manufacture or treatment of certain consumer goods]	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

Stephen Chan
Operation Manager

Important Notes :
The results relate only to the samples tested.

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 USA 22314 DATE: April 11, 2019

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	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	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

#: 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 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 : 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	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>	
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 RESULTS

1.4 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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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	NA
7.1	General	NA
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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Address:	1321 Cameron St., Alexandria, Virginia	UL ORDER NO.:	12810875
	USA 22314	DATE:	April 11, 2019

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 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.

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	Amaze
002	White paper card with multicolor coatings (box) (From 001)
003	Transparent adhesive tape (joint of box) (From 001)
004	Transparent plastic with adhesive (window) (From 001)
005	Transparent plastic (tray) (From 001)
006	Cyan coating (body& information step of mazes) (From 001)
007	Red coating (logo& indicator of mazes) (From 001)
008	White plastic (main body of mazes) (From 001)
009	Cyan plastic (stylus) (From 001)
010	Silvery metal (screw of mazes) (From 001)
011	Silvery metal (staple of instructions) (From 001)
012	White paper sheet with black printing (instructions) (From 001)
013	White cord (joint of stylus) (From 001)
014	Dull white plastic (holder for indicator inside mazes) (inaccessible) (From 001)

3.1 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	
			006	007
Antimony (Sb)	1000	50	<50	<50
Arsenic (As)	1000	50	<50	<50
Barium (Ba)	1000	50	<50	<50
Cadmium (Cd)	1000	50	<50	<50
Selenium (Se)	1000	50	<50	<50
Rating			PASS	PASS

Remark:

- 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.

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3.2 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	
		006	007**
*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:			

3.3 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
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.				

TEST RESULTS

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3.4 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
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.				

3.5 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	
			008+009	014
Cadmium (Cd)	100	10	<10	<10
Rating			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.				

3.6 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	
			008+009	010+011
Lead (Pb)	100	10	<10	<10
Rating			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.				

TEST RESULTS

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**3.7 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	
			008+009	010+011
Lead (Pb)	100	10	<10	<10
Rating			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.				

**3.8 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	
			008+009	010+011
Lead (Pb)	100	10	<10	<10
Rating			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.				

**3.9 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			
			006	007	008+009	010+011
Lead (Pb)	90	10	< 10	< 10	< 10	< 10
Rating			PASS	PASS	PASS	PASS

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg	
			012	013
Lead (Pb)	90	10	<10	<10
Rating			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 RESULTS

3.10 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
				008+009
Benzo[a]pyrene	50-32-8	0.5	0.1	<0.1
Benzo[e]pyrene	192-97-2	0.5	0.1	<0.1
Benzo[a]anthracene	56-55-3	0.5	0.1	<0.1
Chrysene	218-01-9	0.5	0.1	<0.1
Benzo[b]fluoranthene	205-99-2	0.5	0.1	<0.1
Benzo[j]fluoranthene	205-82-3	0.5	0.1	<0.1
Benzo[k]fluoranthene	207-08-9	0.5	0.1	<0.1
Dibenzo[a,h]anthracene	53-70-3	0.5	0.1	<0.1
Rating				PASS
<i>Remark:</i> -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.				

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3.11 Determination Of Pentachlorophenol [German Ordinance on Prohibition of Chemical (ChemVerbotsV) Attachment 15]

Test Method : In house method

Analyte	Requirement (Max.)	Reporting Limit	Sample, mg/kg	
			012	013
PCP	5	1	<1.0	<1.0
Rating			PASS	PASS

Remark:
 -All concentrations expressed in milligrams per kilogram of Tested Parts
 -“<” means less than; PCP denotes as pentachlorophenol (87-86-5)
 -Method for determination of PCP is determined by GC-MSD
 -The test results only apply to the items tested.

3.12 Determination Of Pentachlorophenol [Point 22 Of The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) With Further Amendment]

Test Method : ISO 17070:2015

Analyte	Requirement (Max.)	Reporting Limit	Sample, mg/kg	
			012	013
PCP	1000	1	<1.0	<1.0
Rating			PASS	PASS

Remark:
 -All concentrations expressed in milligrams per kilogram of Tested Parts
 -“<” means less than; PCP denotes as pentachlorophenol (87-86-5)
 -Method for determination of PCP is determined by GC-MSD
 -The test results only apply to the items tested.

3.13 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	
			006	007
Cadmium (Cd)	1000	10	<10	<10
Rating			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.

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3.14 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 : Health Canada Product Safety Reference Manual, Book 5, Part B, Method C-02.2 & C-07

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg	
			006	007
Lead (Pb)	90	10	< 10	< 10
Mercury (Hg)	10	10	< 10	< 10
Rating			PASS	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.				

3.15 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	
			006	007
Lead (Pb)	90	10	<10	<10
Rating			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.				

3.16 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	
			006	007
Lead (Pb)	90	10	<10	<10
Rating			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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SZ-FAF-001 (2017-10-12)



TEST REPORT

Supersede test report serial number C80201947

Client: ThinkFun Inc. REPORT NO.: C80201947 R001
 Address: 1321 Cameron St., Alexandria, Virginia UL ORDER NO.: 12810875
 USA 22314 DATE: April 11, 2019

TEST RESULTS

3.17 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	
			006	007
Lead (Pb)	90	10	<10	<10
Rating			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.				

3.18 Total Lead Content In Paint And Surface Coatings [California Proposition 65 Settlements Of Alameda Superior Court, RG07356892]

Test Method: CPSC-CH-E1003-09.1 (Paint or Surface Coatings)

Elements	Requirement (Max.)	Reporting Limit	Sample, mg/kg	
			006	007
Lead (Pb)	90	10	<10	<10
Rating			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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TEST REPORT

Supersede test report serial number C80201947

Client: ThinkFun Inc. REPORT NO.: C80201947 R001
 Address: 1321 Cameron St., Alexandria, Virginia UL ORDER NO.: 12810875
 USA 22314 DATE: April 11, 2019

TEST RESULTS

3.19 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]

Test Method : CPSC-CH-C1001-09.4

Analyte	CAS No.	Requirement (Max.)	Reporting Limit	Sample, %
				006+007
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
Diisobutyl Phthalate, DIBP	84-69-5		0.005	<0.005
Sum of DBP, BBP, DEHP & DIBP			0.005	<0.005
Diisononyl Phthalate, DINP	28553-12-0 /68515-48-0	0.1	0.005	<0.005
Di-n-octyl Phthalate, DNOP	117-84-0		0.005	<0.005
Diisodecyl Phthalate, DIDP	26761-40-0 / 68515-49-1		0.005	<0.005
Sum of DINP, DNOP & DIDP			0.005	<0.005
Rating				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)				
-Toys and child care articles need to determine DEHP, DBP, BBP or DIBP. 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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SZ-FAF-001 (2017-10-12)



TEST REPORT

Supersede test report serial number C80201947

Client: ThinkFun Inc. REPORT NO.: C80201947 R001
 Address: 1321 Cameron St., Alexandria, Virginia UL ORDER NO.: 12810875
 USA 22314 DATE: April 11, 2019

TEST RESULTS

3.20 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, %
				006+007
Dibutyl Phthalate, DBP	84-74-2	0.1	0.005	<0.005
Benzyl Butyl Phthalate, BBP	85-68-7	0.1	0.005	<0.005
Diethylhexyl Phthalate, DEHP	117-81-7	0.1	0.005	<0.005
Diisononyl Phthalate, DINP	28553-12-0 /68515-48-0	0.1	0.005	<0.005
Diisobutyl Phthalate, DIBP	84-69-5	0.1	0.005	<0.005
Dipentyl Phthalate, DPENP	131-18-0	0.1	0.005	<0.005
Di-n-hexyl Phthalate, DHEXP	84-75-3	0.1	0.005	<0.005
Dicyclohexyl Phthalate, DCHP	84-61-7	0.1	0.005	<0.005
Rating				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

Supersede test report serial number C80201947

Client: ThinkFun Inc. REPORT NO.: C80201947 R001
 Address: 1321 Cameron St., Alexandria, Virginia UL ORDER NO.: 12810875
 USA 22314 DATE: April 11, 2019

TEST RESULTS

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

Test Method : CPSC-CH-C1001-09.4

Analyte	CAS No.	Requirement (Max.)	Reporting Limit	Sample, %	
				006+007	
Dibutyl Phthalate, DBP	84-74-2	0.1	0.005	<0.005	
Benzyl Butyl Phthalate, BBP	85-68-7	0.1	0.005	<0.005	
Diethylhexyl Phthalate, DEHP	117-81-7	0.1	0.005	<0.005	
Diisononyl Phthalate, DINP	28553-12-0/ 68515-48-0	0.1	0.005	<0.005	
Di-n-octyl Phthalate, DNOP	117-84-0	0.1	0.005	<0.005	
Diisodecyl Phthalate, DIDP	26761-40-0/ 68515-49-1	0.1	0.005	<0.005	
Rating				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.					

3.22 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		
				006+007	008+009	014
Benzene	71-43-2	5	1	<1.0	<1.0	<1.0
Rating				PASS	PASS	PASS
<i>Remark:</i> -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

Supersede test report serial number C80201947

Client: ThinkFun Inc. REPORT NO.: C80201947 R001
 Address: 1321 Cameron St., Alexandria, Virginia UL ORDER NO.: 12810875
 USA 22314 DATE: April 11, 2019

TEST RESULTS

3.23 Determination Of Flame Retardant Content [Point 4,7,8,44,45 Of The Annex XVII Of The Regulation (EC) No. 1907/2006 (REACH) With Further Amendment]

Test Method : In-house method

Analyte	Requirement (Max.)	Reporting Limit	Sample, mg/kg
			013
PBBs	Not Detected	5	< 5.0
PentaBDE	1000	5	< 5.0
OctaBDE	1000	5	< 5.0
TRIS	Not Detected	5	< 5.0
TEPA	Not Detected	5	< 5.0
Rating			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
- Polybrominated biphenyl (PBB); Pentabrominated diphenylether (pentabde); Octabrominated diphenylether (octabde); (2,3 dibromopropyl) phosphate (TRIS); Tris(aziridinyl)phosphinoxide (TEPA)
- Not Detected denotes "less than reporting limit (5 mg/kg)

3.24 Flame Retardant (PBBs & PBDES) As Per Client’s Specification with Reference to Chem.VerbotsV Regulation.

Test Method: In-house Method

Analyte	Client’s Requirement (Max.)	Reporting Limit	Sample, mg/kg
			013
PBBs	Not Detected	10	< 10.0
PBDEs	Not Detected	10	< 10.0
OBDE	Not Detected	10	< 10.0
Rating			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
- Polybrominated biphenyl (PBB); Pentabrominated diphenylether (PBDE); Octabrominated diphenylether (OBDE).
- Not Detected denotes "less than reporting limit (5 mg/kg)
- The test results only apply to the items tested.

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



TEST REPORT

Supersede test report serial number C80201947

Client: ThinkFun Inc. REPORT NO.: C80201947 R001
 Address: 1321 Cameron St., Alexandria, Virginia UL ORDER NO.: 12810875
 USA 22314 DATE: April 11, 2019

TEST RESULTS

3.25 Determination of PBB & PBDEs Content [(EU) No. 757/2010 And (EU) No.2016/293 Amending Regulation (EC) No 850/2004 On Persistent Organic Pollutants]

Test Method : In-house method

Analyte	Requirement (Max.)	Reporting Limit	Sample, mg/kg
			013
PBBs	Not Detected	5	<5
PBDEs	Not Detected	5	<5
Rating			PASS
<i>Remark:</i> -All concentrations expressed in milligrams per kilogram of Tested Parts -“<” means less than - Not Detected denotes "less than reporting limit (5 mg/kg) -Method for determination of analyte is determined by GC-MSD & LC-MS-MS -The test results only apply to the items tested.			

3.26 Determination Of HBCDD As Per Client's Specification.

Test Method : In-house method

Analyte	Client's Requirement (Max.)	Reporting Limit	Sample, mg/kg
			008+009
HBCDD	Not Detected	5	< 5.0
Rating			PASS
<i>Remark:</i> -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) -The test results only apply to the items tested.			

3.27 Determination Of Flame Retardant Content [Bedarfsgegenständeverordnung Annex 1 (to § 3) Substances which may not be used in the manufacture or treatment of certain consumer goods]

Test Method : In-house method

Analyte	Requirement (Max.)	Reporting Limit	Sample, mg/kg
			013
Tris (2,3-dibromopropyl) phosphate	Not Detected	5	< 5
Tris (aziridinyl) phosphine oxide	Not Detected	5	< 5
Rating			PASS
<i>Remark:</i> -All concentrations expressed in milligrams per kilogram of Tested Parts -“Not Detected” means less than reporting limit -Method for determination of analyte is determined by GC-MSD & LC-MS-MS -The test results only apply to the items tested.			

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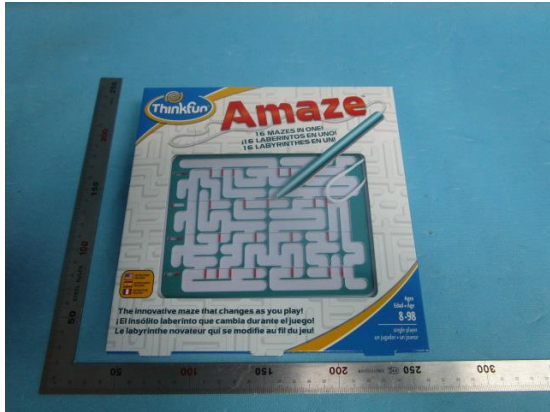


TEST REPORT

Supersede test report serial number C80201947

Client:	ThinkFun Inc.	REPORT NO.:	C80201947 R001
Address:	1321 Cameron St., Alexandria, Virginia	UL ORDER NO.:	12810875
	USA 22314	DATE:	April 11, 2019

Product Photo:



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Estimated Schedule and Price. Any time schedule and pricing terms set forth in this Quotation are estimates only and subject to change upon reasonable notice from us depending upon the specific project.

预估的时间表和价格: 本报价文件中所述的任何时间和表价条款都只是预估，如有变化 (依具体项目而定)，以贵司的合理通知为准。
- On-Site Investigations.** If we perform Services on site at your facilities, or at the facilities of other parties as directed by you, you will ensure that our representatives have safe, secure, and free access to the facilities. Our access will not be conditioned upon the execution of any agreement, waiver, or release. If our representatives are prevented from performing or completing any Services for any reason beyond our reasonable control, and you will not be responsible for the nonperformance, and you may be charged for any actual expenses we incur and fees for Services performed.

现场调查: 我可在贵司的设施提供现场服务或按照贵司的指示在贵方的设施提供现场服务。贵司将确保我们有安全、可靠、自由地进出贵方设施的权力。我们不得因无法合理同意签署任何协议、弃权书或免责声明文件。我们的代表由于超出我们合理控制范围的任何原因无法提供或完成任何服务，我们不会对该等不提供服务的情况承担责任，且贵司可能需承担我们因实际发生任何费用以及已与贵方提供的服务有关的费用。
- 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 studies. You 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.

交付成果: 我们将向贵司提供一份报告，概述如下内容：(i) 我们接受并由贵司指示和我们接受的服务；(ii) 所提供的服务；以及 (iv) 该等服务的成果。我并无义务提及或报告超出我们收到并接受的服务的具体指示范围的任何事实或情况。
- Our Findings.** We do not guarantee that our opinions or findings will be recognized or accepted by third parties.

我们的发现: 我们并不保证我们的意见或发现会被第三方认可或接受。
- Use of Names and Marks.** Except as otherwise authorized by us in writing, you will not use our name, abbreviation, symbols, marks, or the name of any of our subsidiaries, affiliates, or parent on any goods or their containers or packaging, or in connection with any advertising, promotions, or otherwise.

名称和商标的使用: 除非我们另行书面授权外，贵司不可将任何货物或其他容器或包装上，使用我们的名称、缩写、符号、标记或我们公司的任何子公司、关联方或母公司的名称、或将我们与任何广告、推广或其他活动相联系。
- Cancellation Fees.** If you cancel or change a Quotation: (i) for an inspection after 3:00 PM of the working day before the scheduled inspection date, we will charge you the Quotation price plus any travel costs beyond the cancellation; (ii) for testing after we receive the sample(s) at the testing facility, we will charge you cancellation fees according to the amount of actual work performed with a minimum cancellation fee of \$100 USD; or (iii) for a scheduled audit only, you will be responsible for all incurred non-refundable travel costs associate with that audit. Any change or cancellation of an audit that occurs within 7 days of the scheduled audit will be charged a \$600 USD fee in addition to any incurred travel costs.

取消费: 如果贵方：(i) 取消或变更对某项测试的报价文件，且取消或变更的时间是在已排定的检查日期前一工作日下午3:00之后，则我司将按报价文件的价格向贵司收取费用，并加上取消之前已发生的任何差旅费；(ii) 取消或变更对应测试的报价文件，且任何取消或变更的时间是在测试设施收到样品之后，贵司将承担贵方已付的工作量向贵司收取取消费，取消费最低为100美元；或 (iii) 取消或变更对单一已排定的审核日期进行的报价文件，则贵司将负责支付与审核核有关的已有发生的且不可退还的差旅费。如果某一审核的任何变更或取消是在已排定的该审核后7天内，则除了已发生的任何差旅费，还将额外收取600美元的取消费。
- No Warranty. NO REPRESENTATION, WARRANTY, OR GUARANTEE, EXPRESS OR IMPLIED, IS INCLUDED IN THESE TERMS AND CONDITIONS, OR IN ANY QUOTATION, REPORT, OR OTHER DOCUMENT PROVIDED UNDER THESE TERMS AND CONDITIONS INCLUDING, BUT NOT LIMITED TO: (i) ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, (ii) NON-INFRINGEMENT, AND (iii) THAT THE WEB SERVICES (AS DEFINED BELOW) WILL BE UNINTERRUPTED, TIMELY, SECURE, OR ERROR-FREE.**

不保证: 我们未提供任何保证，且在本条款及条件下不提供任何任何保证、陈述或其他保证，均不包含任何明示或默示的保证、保证或担保，包括但不限于：(i) 任何服务的准确性保证；或 (ii) 网络服务 (定义见下文) 不会中断、及时、安全、无误。
- Your Information.** You represent and warrant that all information and data provided to us by you, or on your behalf, is complete and accurate and may be relied upon to provide Services. In addition, you represent and warrant that all of Your Information is owned or licensed by you, and does not infringe on the intellectual property rights of any third party. If any information or data provided to us by you or on your behalf is either incomplete or inaccurate, we will not be liable in any manner for any deficiencies in the Services.

贵方的信息: 贵司保证并承担保证：贵司或贵司的代表提供给贵司的所有信息和数据，均准确、完整、及时，并在提供服务时均为我所依赖。此外，贵司还保证并承担保证，贵司的所有信息均由贵司拥有或经许可，并不侵犯任何第三方的知识产权。倘若贵司或贵司的代表向我司提供的任何信息或数据不完整或不准确，我们不会对任何方式或任何程度的任何缺陷承担责任。
- Ownership of Work Product.** You will own the test reports or other materials provided to you pursuant to any Quotation. We may retain a copy of the test reports and other materials for our archives and for creating reports for you and third parties, as required by you.

工作产品的所有权: 贵司将拥有根据任何报价文件的测试报告或其他材料。应贵司要求，我们可为贵司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关联服务，包括通过网络提供服务的功能 (以下合称“网络服务”)。网络服务旨在方便起见并且是在“依照原样、提供时即可使用”的基础上提供给贵方的，通过使用网络服务，贵司承认并接受，通过我们网络、互联网或无线传输的数据或服务，贵司自行承担任何风险，并同意网络服务传输的数据或服务，或所传输的网络服务的数据或服务，不保证安全或不受未经授权的人员入侵；并且，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篡改、修改或删除。贵司承认，如果贵司希望保护贵司向我司传输数据或文件，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，并受适用于该等服务的所有网络服务的约束。网络服务包含在上面的服务定义之中。
- Confidentiality.** We will not disclose information obtained in confidence (“Confidential Information”) other than our subsidiaries, affiliates, or subcontractors, without your prior written authorization. Confidential Information will not include information: (a) already known to us, (b) publicly available, (c) or sufficiently 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 regulatory authorities.

保密: 我们不会在未经贵方授权的情况下，向我们的子公司、关联方或分包商披露，保密信息也不包括以下信息：(a) 我们已知悉的信息；(b) 可从公开渠道获得的信息；(c) 我们随后在不违反本条款及条件的情况下从其他渠道获得的信息；(d) 为了提供服务有必要披露的信息；(e) 法律或政府的命令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司或我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: 如果我们要求采样检验，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。贵司承认，测试和样品准备工作可能会对原物或破坏样品，对此我们将不承担责任。
- 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 OR 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 OF SERVICES 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对由于贵司违约和/或未能适当行使技能和/或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，我们均不会超过为因该等索赔而具体承担而收取的服务费。在任何情况下，我们均不会对任何性质的任何间接的、后果性的、或有的、特殊的、惩罚性的或惩罚性的损害赔偿承担责任，赔偿也不限于：利润损失、损害赔偿、补救损失、补救损失、补救损失、补救损失、补救损失、补救损失。即使我们事先告知了该等损害赔偿可能性的情况下亦不例外，在任何情况下，我们均不因任何损失、损害或费用索赔而对贵司承担责任，除非该等索赔是在因我们提供因该等索赔发生之日后的十二个月之内，或在任何情况下是提供服务的日期后的十二个月内，依据第24条(争议) 条款。
- 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之提供或不能提供) 引起的损失、损害或费用而提出的任何索赔，贵司将对我方及我的管理人员、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: 双方当事人，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无权根据《合同(第三方权利) 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、作为某一层次的成员还是作为回应特定描述而被确定的。
- 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，将我司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 accreditation 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。所有分包商都将符合我们的资质要求，并符合贵司可保保密性、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: U.L. Verification Services Pte. Ltd., Attn: President, 1 Maritime Square, Harbour Front Centre, #11-03, Singapore 099253, with copy to U.L. LLC, Attn: General Counsel at 333 Pingston Road, Northbrook, Illinois 60062. Notice will be effective upon receipt.

终止和通知: 本条款及条件将继续有效，直至任何一方经三十天书面通知终止，或在发生贵方违约的情况下，我们可在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，可通过手递、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，发送给贵方的通知，必须经如下地址发送：U.L. Verification Services Pte. Ltd, Attn: President, 1 Maritime Square, Harbour Front Centre, #11-03, Singapore 099253, 并同时转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；(但是)：(i) UL契约方的主要营业地在亚洲、澳大利亚或新西兰的，适用新加坡的法律管辖之进行解释；(ii) UL契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)，而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, 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，将由美国仲仲裁协会 (American Arbitration Association，以下简称“美仲协”) 的国际争议解决中心根据美仲协的《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 (但是)：(i) UL契约方的主要营业地在欧洲的，仲裁地为瑞士的日内瓦；(ii) UL契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管理。仲裁小组的成员选择如下：双方将要求获得一份从美仲协的仲裁员名单 (需经验丰富，且熟悉美仲协的《大型、复杂商事争议程序》) 小组中抽选出的十 (10) 名仲裁员的名单。从该名单中，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，以裁定或有的、后果性的或惩罚性的损害赔偿 (包括但不限于使用权利、不当得利或实际损失)，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，具有法律强制执行力并可对仲裁裁决进行强制执行。仲裁员将双方因本条款及条件而产生的任何争议，以书面形式或通过自我声明的方式解决。本条款及条件中的任何内容都不会阻止任何一方寻求 (作为其他救济之附加) 或防止任何使用、滥用或误用其标志、机密或有信息或知识产权。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 to the extent permissible under 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法律允许的范围内依然有效。
- 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: 本条款及条件可接受通过书面、完整同意、取代于本条款及条件的的事项的任何其他方式、除通知外。在任何情况下，贵司的任何修改、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口头或书面的、修订的或不同的条款及条件，也不会以任何方式对我司具有约束力，并非由我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书面方式或自我声明的方式接受的修改。任何该等修改一概从我们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 in any Quotation.

优先顺序: 除非第3条 (支付条款)、第5条 (预估的时间和表价) 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 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: 本条款及条件可通过书面、PDF或其他电子方式签订和传递。我们可手中的、经贵司签字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。我们可手中的、贵司的接受函或其他商业文件上的任何口头或书面的、修订的或不同的条款及条件，都不会以任何方式对我司具有约束力，并非由我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书面方式或自我声明的方式接受的修改。任何该等修改一概从我们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。
- 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, acts of war, terrorism, riots, civil disorder, rebellions, or other similar cause beyond the reasonable control of the party affected, provided such default or delay: (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 default; and (iv) cannot be prevented by any force majeure. Notwithstanding the foregoing, the party affected by the event described herein will be liable for any failure or delay in the performance of its obligations due to force majeure, to the extent permitted by law.

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、叛乱或其他合理控制范围外的其他类似原因，而不履行或迟延履行其义务，该受影响的一方不对该等不履行或迟延履行的情况承担任何责任，但需满足以下附列：该等不履行或迟延履行的情况 (i) 无法通过合理的预防措施防止，(ii) 无法被合理规避，且 (iii) 该不履行或迟延履行的一方将造成不履行或迟延履行的情况立即通知了另一方。

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