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检测
TESTING
CNAS L1114

TEST REPORT

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

REPORT NO: C80171836
DATE: March 1, 2018

Attn: Kirsten Bloxom

Sample Description: Yoga Cards
Quantity Submitted: 6 pieces
Style No.: 1843
PO No.: Not provided
Labeled Age Grading: 6+
Test Age Grading: Ages 6+
Destination: USA, Europe, Canada
Country of Origin: China
Date(s) of samples received: February 12, 2018

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

CONCLUSION: Please refer to page two(2)

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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 Physical And Mechanical Requirements	PASS
EN 71-1:2014 Mechanical & Physical Properties	PASS
ASTM F963-17 Flammability Requirements	PASS
16 CFR 1500.3 (c) (6) (vi) / 16 CFR 1500.44 Flammability Requirements	PASS
Canada Toys Regulations SOR/2011-17 And Regulations Amending Toys Regulations SOR/2016-195 &SOR/2016-302 Flammability Requirements (Cellulose Nitrate And Celluloid)	PASS
EN 71-2:2011+A1:2014 Flammability	PASS
Flammability Requirements For Textile Fibres: SOR/2016-194	NOT APPLICABLE#
ASTM F963-17 Clause 4.3.5.1 (2) Elements Migration in surface coating	NOT APPLICABLE#
ASTM F963-17 Clause 4.3.5.2 (2) (b) Elements Migration in substrate	NOT APPLICABLE#
ASTM F963-17 Clause 4.3.5.2 (2) (c) Soluble Cadmium in metallic Small Part	NOT APPLICABLE#
16 CFR 1303 Total Lead Content Requirements	NOT APPLICABLE#
ASTM F963-17 Clause 4.3.5.1 (1) Total Lead in Surface Coating	NOT APPLICABLE#
ASTM F963-17 Clause 4.3.5.2 (2) (a) Total Lead in Substrate	PASS
Canada Toys Regulations SOR/2011-17 and Regulations Amending Toys Regulations SOR/2016-195 &SOR/2016-302 Heavy Metal Content Requirements	NOT APPLICABLE#
Consumer Product Safety Improvement Act of 2008 Total Lead Content Requirement [Paint or Surface Coating]	NOT APPLICABLE#
Consumer Product Safety Improvement Act of 2008 Total Lead Content Requirement [Substrate Materials]	PASS
Total Lead Content Test With Reference to California Proposition 65(RG07356892/BG07350969/RG08378050/Court 07-462991)	PASS
Canada Consumer Products Containing Lead (Contact mouth) regulation	NOT APPLICABLE#
Total Cadmium Content and European Reach Regulation Annex XVII	PASS
Client's Requirement with reference to Consumer Product Safety Improvement Act of 2008 Total Phthalate Requirement	PASS
Total Phthalate and European Reach Regulation Annex XVII	PASS
Phthalates Content With Reference To California Proposition 65 Requirement(Sacramento Superior Court 07AS04683 / Alameda Superior Court BG07350969 / RG08367601 / RG07351032 / RG08378050)	PASS
Canada Phthalates regulations SOR 2016-188	NOT APPLICABLE#
NERC (Formerly Organization: CSG) Model Legislation – Toxics in Packaging Clearinghouse (TPCH), as revised December 1998 & October 2004	PASS
94/62/EC Heavy Metals Requirements on Packaging and Packaging Waste	PASS

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

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REPORT NO: C80171836
DATE: March 1, 2018

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

David Mo

Lulu Yang

David Mo
Assistant Manager- Toys Department

Lulu Yang
Senior Technical Officer
Chemical Department

Important Notes :

The results only relate to the samples tested.

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

1. Total Lead Content Test With Reference to California Proposition 65(RG07356892/BG07350969/RG08378050/Court 07-462991)
2. NERC (Formerly Organization: CSG) Model Legislation – Toxics in Packaging Clearinghouse (TPCH), as revised December 1998 & October 2004
3. 94/62/EC Heavy Metals Requirements on Packaging and Packaging Waste
4. Phthalates Content With Reference To California Proposition 65 Requirement(Sacramento Superior Court 07AS04683 / Alameda Superior Court BG07350969 / RG08367601 / RG07351032 / RG08378050)
5. Canada Toys Regulations SOR/2011-17 And Regulations Amending Toys Regulations SOR/2016-195 &SOR/2016-302 Physical And Mechanical Requirements
6. Canada Toys Regulations SOR/2011-17 And Regulations Amending Toys Regulations SOR/2016-195 &SOR/2016-302 Flammability Requirements (Cellulose Nitrate And Celluloid)
7. Canada Toys Regulations SOR/2011-17 and Regulations Amending Toys Regulations SOR/2016-195 &SOR/2016-302 Heavy Metal Content Requirements
8. Client’s Requirement with reference to Consumer Product Safety Improvement Act of 2008 Total Phthalate Requirement
9. ASTM F963-17 Physical & Mechanical Requirements
10. ASTM F963-17 Flammability Requirements
11. ASTM F963-17 Clause 4.3.5.1 (2) Elements Migration in surface coating
12. ASTM F963-17 Clause 4.3.5.2 (2) (b) Elements Migration in substrate
13. ASTM F963-17 Clause 4.3.5.2 (2) (c) Soluble Cadmium in metallic Small Part
14. ASTM F963-17 Clause 4.3.5.1 (1) Total Lead in Surface Coating
15. ASTM F963-17 Clause 4.3.5.2 (2) (a) Total Lead in Substrate

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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 6+
Samples Quantity : 1 style x 2 pieces

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material(visual check on cleanness)	P
4.7	Accessible Edges	P
4.9	Accessible Points	P
5	Safety Labeling Requirements	P
6	Instructional Literature	P
7	Producer's Markings	P

Remark: P=Pass

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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 6+
Samples Quantity: 1 style x 2 pieces

	<u>TEST ITEMS</u>	<u>SHARP POINT</u> (1500.48)	<u>SHARP EDGE</u> (1500.49)
	As received	P	P
1500.53	Impact Test	P	P
1500.53	Torque Test	P	P
1500.53	Tension Test	P	P

Remark: P = Pass

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

The following clauses are identified to be applicable:

Age grading for testing : Ages 6+
Samples Quantity : 1 style x 2 pieces

<u>(A)</u>	<u>Test Items</u>	<u>Assessment</u>
9	Ends	P
Remark:	P = Pass	

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1.4 AS PER EUROPEAN STANDARDS ON SAFETY OF TOYS EN 71-1:2014

Applicant Specified Age Grading for testing: Ages 6+
Sample size: 1 style x 2 pieces

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material cleanliness	P
4.7	Edges	P
4.8	Points and metallic wires	P

Remarks: P=Pass

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

Warnings and safety instructions shall be written in the languages easily understood by consumers of the country in which the toy is to be sold. Only English version was reviewed.

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2. FLAMMABILITY TEST

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

Samples Quantity: 1 style x 2 pieces
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 style x 2 pieces
Requirement: Burning rate should not exceed 0.1 inch per second along the major axis.
Results: The sample was tested to be ignited but extinguished.

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

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

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

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

Date(s) of test(s) conducted: February 23, 2018 to February 26, 2018

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TEST RESULTS

3. CHEMICAL TESTS:

Key to sample(s):

- Sample 1 = Multicolor coatings (box, instruction sheet)
- Sample 2 = White paper card with transparent plastic film and inaccessible multicolor coatings (cards)
- Sample 3 = White paper card with multicolor coatings (box)
- Sample 4 = White paper sheet with multicolor coatings (instruction sheet)
- Sample 5 = Transparent plastic film (protective film of cards)
- Sample 6 = Transparent plastic label (joint of box)

3.1 TOTAL LEAD CONTENT TEST: SUBSTRATE

Requirement: As per ASTM F963-17 Clause 4.3.5.2 (2) (a) requirement, lead content in the materials under test shall not exceed of 100ppm.

Test method: CPSC-CH-E1001-8.3 Standard operating procedure for determining total Lead (Pb) in metal;
CPSC-CH-E1002-8.3 Standard operating procedure for determining total Lead (Pb) in non-metal

Results:

Total Lead Sample 2
<10.0

All concentrations expressed in milligrams per kilogram
“<” means “less than”

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3.2 TOTAL LEAD CONTENT TEST: SUBSTRATE

Requirement: The submitted samples must meet the Total Lead Limit of 100ppm as per Consumer Product Safety Improvement Act of 2008

Test method: CPSC-CH-E1001-8.3 Standard operating procedure for determining total Lead (Pb) in metal children's product (including children's metal jewelry);
CPSC-CH-E1002-8.3 Standard operating procedure for determining total Lead (Pb) in non-metal children's products.

Results:

	<u>Sample 2</u>
Total Lead	<10.0

All concentrations expressed in milligrams per kilogram
"<" means "less than"

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3.3 TOTAL LEAD CONTENT TEST: SUBSTRATE

Requirement: The total lead content shall not be more than 100ppm with reference to California Proposition 65. (RG07356892)

Test method: CPSC-CH-E1001-8.3 Standard operating procedure for determining total Lead (Pb) in metal children's product (including children's metal jewelry);
CPSC-CH-E1002-8.3 Standard operating procedure for determining total Lead (Pb) in non-metal children's products.

Results:

Total Lead Sample 2
<10.0

All concentrations expressed in milligrams per kilogram
"<" means "less than"

TOTAL LEAD CONTENT TEST: SUBSTRATE

Requirement: The total lead content shall not be more than 600ppm with reference to California Proposition 65. (BG07350969/RG08378050/Court 07-462991)

Test method: CPSC-CH-E1001-8.3 Standard operating procedure for determining total Lead (Pb) in metal children's product (including children's metal jewelry);
CPSC-CH-E1002-8.3 Standard operating procedure for determining total Lead (Pb) in non-metal children's products.

Results:

Total Lead Sample 2
<10.0

All concentrations expressed in milligrams per kilogram
"<" means "less than"

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TESTING
CNAS L1114

TEST REPORT

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

REPORT NO: C80171836
DATE: March 1, 2018

TEST RESULTS

3.4 TOTAL CADMIUM CONTENT AND EUROPEAN REACH REGULATION ANNEX XVII: WET-ASHING DIGESTION AND DETECTED WITH AAS/ICP & EN1122:2001 (METHOD B) MICROWAVE DIGESTION AND DETECTED WITH AAS/ICP

Results:

Element	Total Cadmium
Limit	< 100
Sample 1	<5.0
Sample 2	<5.0
Sample 5/6	<5.0

All concentrations expressed in milligrams per kilogram
"<" means "less than"

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TEST REPORT

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

REPORT NO: C80171836
DATE: March 1, 2018

TEST RESULTS

3.6 TOTAL PHTHALATE TEST AND EUROPEAN REACH REGULATION ANNEX XVII

Test Method : EN 14372: 2004

Requirement : DEHP, DBP & BBP content shall not be more than 0.1% by weight in toys and children article.

DINP, DIDP & DNOP content shall not be more than 0.1% by weight in toys and children article that can be placed in the mouth by children.

Results :

Sample ID	Plasticiser Values (w/w)					
	DBP	BBP	DEHP	DNOP	DINP	DIDP
Sample 2	ND	ND	ND	ND	ND	ND

Remarks: 1) Detection Limit for each phthalate = 0.005%
2) ND= not detected

Key : DBP = Di-butyl phthalate DEHP = Di (2-Ethylhexyl) phthalate
BBP = Benzyl butyl phthalate DINP = Di-“isonomy” phthalate
DIDP = Di-“isodecyl” phthalate DNOP = Di -n-octal phthalate

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TEST REPORT

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

REPORT NO: C80171836
DATE: March 1, 2018

TEST RESULTS

3.7 TOTAL PHTHALATE TEST WITH REFERENCE TO CALIFORNIA PROPOSITION 65 (Sacramento Superior Court 07AS04683 / Alameda Superior Court BG07350969 / RG08367601 / RG07351032 / RG08378050)

Test Method : CPSC-CH-C1001-09.3, Standard operating procedure for determination of phthalates.

Requirement : Each of DEHP, DBP, BBP, DIDP, DnHP content shall not be more than 0.1% by weight.

Results :

Sample ID	Plasticiser Values (w/w)				
	DBP	BBP	DEHP	DnHP	DIDP
Sample 2	ND	ND	ND	ND	ND

Remarks: 1) Detection Limit for each phthalate = 0.005%
2) ND= not detected

Key : DBP = Dibutyl Phthalate DEHP = Di (2-Ethylhexyl) Phthalate
BBP = Benzyl butyl Phthalate DnHP = Di-n-hexyl phthalate
DIDP = Di-“isodecyl” phthalate

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TEST REPORT

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

REPORT NO: C80171836
DATE: March 1, 2018

TEST RESULTS

3.8 NERC (FORMERLY ORGANIZATION: CSG) MODEL LEGISLATION – TOXICS IN PACKAGING CLEARINGHOUSE (TPCH), AS REVISED DECEMBER 1998 & OCTOBER 2004 AND MICROWAVE DIGESTION AND DETECTED WITH AAS/ICP AND WET-ASHING DIGESTION AND DETECTED WITH AAS/ICP

Results:

Elements	Total Cadmium	Hexavalent Chromium	Total Lead	Total Mercury	Pb + Cd + Hg + Cr(VI)
Limits					< 100
Sample 3	<5.0	<10.0	<10.0	<5.0	<30.0
Sample 4	<5.0	<10.0	<10.0	<5.0	<30.0
Sample 5	<5.0	<10.0	<10.0	<5.0	<30.0
Sample 6	<5.0	<10.0	<10.0	<5.0	<30.0

All concentrations expressed in milligrams per kilogram
"<" means "less than"

3.9 HEAVY METALS REQUIREMENTS ON PACKAGING AND PACKAGING WASTE: 94/62/EC & MICROWAVE DIGESTION AND DETECTED WITH AAS/ICP AND WET-ASHING DIGESTION AND DETECTED WITH AAS/ICP

Results:

Elements	Total Cadmium	Hexavalent Chromium	Total Lead	Total Mercury	Pb + Cd + Hg + Cr(VI)
Limits					< 100
Sample 3	<5.0	<10.0	<10.0	<5.0	<30.0
Sample 4	<5.0	<10.0	<10.0	<5.0	<30.0
Sample 5	<5.0	<10.0	<10.0	<5.0	<30.0
Sample 6	<5.0	<10.0	<10.0	<5.0	<30.0

All concentrations expressed in milligrams per kilogram
"<" means "less than"

Date(s) of test(s) conducted: February 12, 2018 to February 26, 2018

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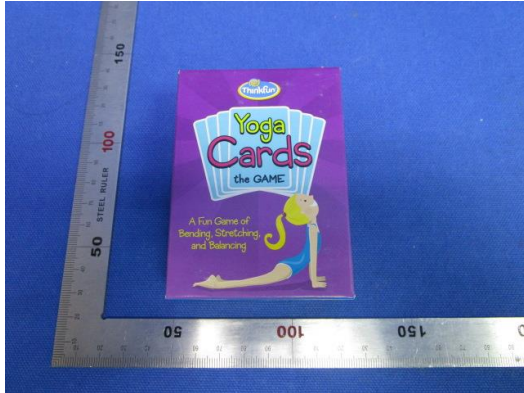
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TEST REPORT

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

REPORT NO: C80171836
DATE: March 1, 2018

Product Photo:



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