



TEST REPORT

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

REPORT NO: C80561493
DATE: August 8, 2014

Attn: Kirsten Bloxom

Sample Description: Rush Hour 2
Quantity Submitted: 4 piece
Style No.: 5010
PO No.: Not provided
Labeled Age Grading: For ages 8 to adult
Test Age Grading: 8+
Destination: USA, Europe, Canada
Country of Origin: China
Date(s) of samples received: July 10, 2014 & July 29, 2014

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

CONCLUSION:

ASTM F963-11 Physical & Mechanical Requirements	PASS
16 CFR 1500 Physical & Mechanical Requirements	PASS
EN 71-1:2011+ A3:2014 Mechanical & Physical Properties	PASS
ASTM F963-11 Flammability Requirements	PASS
16 CFR 1500.3 (c)(6) (vi) / 16 CFR 1500.44 Flammability Requirements	PASS
EN 71-2:2011+A1:2014 Flammability	PASS
ASTM F963-11 Clause 4.3.5.1 (2) Elements Migration in surface coating	PASS
ASTM F963-11 Clause 4.3.5.2 (2) (b) Elements Migration in substrate	NOT APPLICABLE#
EN 71-3:2013 Migration of Certain Elements	NOT APPLICABLE#
Canada Toys Regulations SOR/2011-17 Heavy Metal Content Requirements	PASS
ASTM F963-11 Clause 4.3.5.1 (1) Total Lead in Surface Coating	PASS
16 CFR 1303 Total Lead Content Requirements	PASS
Consumer Product Safety Improvement Act of 2008 Total Lead Content Requirement [Paint or Surface Coating]	PASS
ASTM F963-11 Clause 4.3.5.2 (2) (a) Total Lead in Substrate	PASS
Consumer Product Safety Improvement Act of 2008 Total Lead Content Requirement [Substrate Materials]	PASS
Total Lead Content Test in Non-PVC accessible component per California Proposition 65	PASS
ASTM F963-11 Clause 4.3.5.2 (2) (c) Soluble Cadmium in metallic small part	NOT APPLICABLE#
Total Cadmium Content and European Reach Regulation Annex XVII	PASS
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	PASS
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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SZ-FAF-001 (2013-04-10)



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

Benson Ye
Assistant Laboratory Manager –
Toys Department

Ms. Carol Ke
Laboratory manager-
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. EN 71-1:2011+ A3:2014 Mechanical & Physical Properties
2. EN 71-2:2011+A1:2014 Flammability
3. Total Lead Content Test in Non-PVC accessible component per California Proposition 65
4. Total Phthalate Test According to California Proposition 65
5. NERC (Formerly Organization: CSG) Model Legislation – Toxics in Packaging Clearinghouse (TPCH), as revised December 1998 & October 2004
6. 94/62/EC Heavy Metals Requirements on Packaging and Packaging Waste
7. EN 71-3:2013 Migration of Certain Elements

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TEST RESULTS

1. MECHANICAL AND PHYSICAL TEST

1.1 AS PER ASTM STANDARD CONSUMER SAFETY SPECIFICATION FOR TOYS SAFETY F963-11

The following clauses are identified to be applicable:

Age grading for testing : Ages 8+
Samples Quantity : 2 pieces x 1 style

Clause	Test Items	Assessment
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

*: 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: 2 pieces x 1 style

<u>TEST ITEMS</u>	<u>SHARP POINT</u> (1500.48)	<u>SHARP EDGE</u> (1500.49)
As received	P*	P*

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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1.3 PHYSICAL AND MECHANICAL TESTS OF THE MOST STRINGENT REQUIREMENTS OF THE FOLLOWING STANDARDS: AS PER EUROPEAN STANDARDS ON SAFETY OF TOYS EN 71-1:2011+A3:2014

Applicant Specified Age Grading for testing: Ages 8+

Sample size: 2 pieces x 1 style

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material cleanliness	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
7	Warnings, markings and instructions for use	See remark*

Remarks:

*: Address of manufacturer or his authorized representatives or importer should be located in EU community.

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 F963-11 ANNEX A5:

Samples Quantity: 2 piece x 1 style
Requirement: Burning rate should not exceed 0.1 inch per second along the major axis.

Results: The burn rate of sample was less than 0.1 inch per second.

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: 2 piece x 1 style
Requirement: Burning rate should not exceed 0.1 inch per second along the major axis.

Results: The burn rate of sample was less than 0.1 inch per second.

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.

Date(s) of test(s) conducted: July 29, 2014 to August 5, 2014

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3. CHEMICAL TESTS:

Key to sample(s):

- Sample 1 = Multicolor coatings on paper card (box of all cards)
- Sample 2 = Multicolor coatings on paper card (all cards)
- Sample 3 = Red plastic (escape vehicle)
- Sample 4 = White paper card excluding coatings (all cards) + white paper card excluding coatings (box of all cards)
- Sample 5 = White paper card with multicolor coatings (cover of all cards)
- Sample 6 = White paper card with multicolor coatings (case)
- Sample 7 = Transparent plastic film (shrink film of all cards)
- Sample 8 = Transparent plastic (blister of case)

3.1 SOLUBLE ELEMENT MIGRATION IN SURFACE COATING

Requirement: As per ASTM F963-11 Clause 4.3.5.1 (2) requirement, materials under test shall not exceed below limit.

Test method: Reference to ASTM F963-11 Clause 8.3, used acid extraction and analyzed by Inductively Coupled Argon Plasma Spectrometry.

Results:

Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 1	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 2	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0

Remark:

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

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3.2 HEAVY METAL CONTENT TEST: CANADA TOYS REGULATION SOR/2011-17

Requirement : Surface coating applied to Toys shall comply with heavy metal requirement as below table.

Results:

Elements	Total Lead	Total Mercury	Soluble Antimony	Soluble Arsenic	Soluble Barium	Soluble Cadmium	Soluble Selenium
Limits	< 90	None	< 1000	< 1000	< 1000	< 1000	< 1000
Sample 1	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 2	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0

All concentrations expressed in milligrams per kilogram

"<" means "less than"

"N/D" means "None Detected"

**Detection Limit is 10.0 milligrams per kilogram.

3.3 TOTAL LEAD CONTENT TEST: COATING

Requirement : As per ASTM F963-11 Clause 4.3.5.1 (1) requirement, lead content in the materials under test shall not exceed of 90ppm.

Test method: CPSC-CH-E1003-09.1 Standard operating procedure for determining Lead (Pb) in paint

Results :

	Sample 1	Sample 2
Total Lead	<10.0	<10.0

All concentrations expressed in milligrams per kilogram

"<" means "less than"

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3.4 TOTAL LEAD CONTENT TEST: COATING

Criteria : The submitted samples must meet the Total Lead Limit of 90ppm as stated in 16 CFR 1303

Test method: CPSC-CH-E1003-09.1 Standard operating procedure for determining Lead (Pb) in paint

Results :

	<u>Sample 1</u>	<u>Sample 2</u>
Total Lead	<10.0	<10.0

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

3.5 TOTAL LEAD CONTENT TEST: COATING

Requirement : The submitted samples must meet the Total Lead Limit of 90ppm as per Consumer Product Safety Improvement Act of 2008

Test method: CPSC-CH-E1003-09.1 Standard operating procedure for determining Lead (Pb) in paint

Results:

	<u>Sample 1</u>	<u>Sample 2</u>
Total Lead	<10.0	<10.0

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

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3.6 TOTAL LEAD CONTENT TEST: SUBSTRATE

Requirement: As per ASTM F963-11 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 3
<10.0

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

3.7 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:

Total Lead Sample 3
<10.0

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

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3.8 TOTAL LEAD CONTENT IN NON-PVC ACCESSIBLE COMPONENT TEST: COATING

Criteria : The total lead content shall not be more than 600ppm in Non-PVC accessible components as per California Proposition 65

Test method: CPSC-CH-E1003-09.1 Standard operating procedure for determining Lead (Pb) in paint

Results :

	<u>Sample 1</u>	<u>Sample 2</u>
Total Lead	<10.0	<10.0

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

3.9 TOTAL LEAD CONTENT IN NON-PVC ACCESSIBLE COMPONENT TEST: SUBSTRATE

Criteria : The total lead content shall not be more than 600ppm in Non-PVC accessible components as per California Proposition 65

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 3</u>	<u>Sample 4</u>
Total Lead	<10.0	<10.0

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

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3.10 TOTAL CADMIUM CONTENT AND EUROPEAN REACH REGULATION ANNEX XVII: WET-ASHING DIGESTION AND DETECTED WITH AAS/ICP

Results:

Element	Total Cadmium
Limit	< 100
Sample 1	<5.0
Sample 2	<5.0
Sample 3	<5.0

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

3.11 TOTAL PHTHALATE TEST

Requirement : DEHP, DBP or BBP content shall not be more than 0.1% by weight in toys and childcare article.
DINP, DIDP or DNOP content shall not be more than 0.1% by weight in toys and childcare article which can be placed in the mouth by children.

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

Results :

Sample ID	Plasticiser Values (w/w)					
	DBP	BBP	DEHP	DNOP	DINP	DIDP
Sample 1	ND	ND	0.011%	ND	ND	ND
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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SZ-FAF-001 (2013-04-10)



TEST REPORT

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

REPORT NO: C80561493
DATE: August 8, 2014

TEST RESULTS

3.12 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 1	ND	ND	0.011%	ND	ND	ND
Sample 2	ND	ND	ND	ND	ND	ND
Sample 3	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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SZ-FAF-001 (2013-04-10)



TEST REPORT

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

REPORT NO: C80561493
DATE: August 8, 2014

TEST RESULTS

3.13 TOTAL PHTHALATE TEST WITH REFERENCE TO CALIFORNIA PROPOSITION 65

Test Method : CPSC-CH-C1001-09.3, Standard operating procedure for determination of phthalates.
Requirement : Each of DEHP, DBP, BBP, DIDP, DnHP & DINP content shall not be more than 0.1% by weight.
Results :

Sample ID	Plasticiser Values (w/w)					
	DBP	BBP	DEHP	DnHP	DINP	DIDP
Sample 1	ND	ND	0.011%	ND	ND	ND
Sample 2	ND	ND	ND	ND	ND	ND
Sample 3	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 DNHP = Di-n-hexyl phthalate
DIDP = Di-“isodecyl” phthalate DINP = Di-iso-nonyl phthalate

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SZ-FAF-001 (2013-04-10)



TEST REPORT

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

REPORT NO: C80561493
DATE: August 8, 2014

TEST RESULTS

3.14 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 5	<2.5	<7.5	<10.0	<10.0	<30.0
Sample 6	<2.5	<7.5	<10.0	<10.0	<30.0
Sample 7	<2.5	<7.5	<10.0	<10.0	<30.0
Sample 8	<2.5	<7.5	<10.0	<10.0	<30.0

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

3.15 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 5	<2.5	<7.5	<10.0	<10.0	<30.0
Sample 6	<2.5	<7.5	<10.0	<10.0	<30.0
Sample 7	<2.5	<7.5	<10.0	<10.0	<30.0
Sample 8	<2.5	<7.5	<10.0	<10.0	<30.0

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

Date(s) of test(s) conducted: July 29, 2014 to July 31, 2014

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SZ-FAF-001 (2013-04-10)



TEST REPORT

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

REPORT NO: C80561493
DATE: August 8, 2014

Product Photo:



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

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