



**Test Report**

ID: RA0016512(4)R1

Date: 2018-1-10

Page 1 of 8

Application ID : JA0013863(0)  
Applicant : Ya Yuan Toys Co., Ltd.  
1F, No.11, Alley 61, Lane 2, Sec. 8, Yen-Ping N. Rd., Taipei, Taiwan, R.O.C.

Sample : One (1) group of submitted sample(s) stated to be:  
Item Name : Whoopee Cushion, Self-inflating Whoopee Cushion  
Item No. : 7501-6V2, 7501-2F, 7501-6F, 7501-5F, 7501-4K, 7501-4S,  
7501-4SK, 7501-3SI, 7501-6LP, 7501-1, 7501-2, 7501-2LH,  
7501-3S, 7501-10, 7501-10F, 7501-12, 7501-12F, 7501-17,  
7501-17F  
Manufacturer Name : ZHI YUAN ARTS & CRAFTS (SHENZHEN) CO., LTD.  
Country of Origin : CHINA  
Age Grading for Testing : 4+

Date of Receiving : 2017-12-29  
Testing Period : 2018-1-2 to 2018-1-8

\*\*\*\*\*FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)\*\*\*\*\*

SIGN FOR AND ON BEHALF OF  
UNITEC LABORATORY SERVICES (DONGGUAN) LTD.

SIMON CHAN  
EXECUTIVE DIRECTOR

This is to supersede report no. RA0016512(4) date 8 Jan., 2018.



TEST REQUEST	RESULT
A) AS REQUESTED BY THE APPLICANT, TO PERFORM MECHANICAL AND PHYSICAL PROPERTIES TEST(S) OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH ASTM F963-16.	PASS
B) AS REQUESTED BY THE APPLICANT, TO PERFORM MECHANICAL AND PHYSICAL PROPERTIES TEST(S) OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH ASTM F963-17.	PASS
C) AS REQUESTED BY THE APPLICANT, TO PERFORM FLAMMABILITY TEST(S) OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH ASTM F963-16.	PASS
D) AS REQUESTED BY THE APPLICANT, TO PERFORM FLAMMABILITY TEST(S) OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH ASTM F963-17.	PASS
E) AS REQUESTED BY THE APPLICANT, TO DETERMINE SOLUBLE HEAVY ELEMENTS CONTENT IN THE SUBSTRATE OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH ASTM F963-16 AND ASTM F963-17.	PASS
F) AS REQUESTED BY THE APPLICANT, TO DETERMINE SOLUBLE ELEMENTS CONTENT IN PAINT / SIMILAR SURFACE COATING OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH ASTM F963-16 AND ASTM F963-17.	PASS
G) AS REQUESTED BY THE APPLICANT, TO DETERMINE TOTAL LEAD CONTENT IN THE SUBSTRATE OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH U.S. CONSUMER PRODUCT SAFETY IMPROVEMENT ACT OF 2008, SECTION 101, ASTM F963-16 AND ASTM F963-17.	PASS
H) AS REQUESTED BY THE APPLICANT, TO DETERMINE TOTAL LEAD CONTENT IN PAINT / SIMILAR SURFACE COATING OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH U.S. CONSUMER PRODUCT SAFETY IMPROVEMENT ACT OF 2008, SECTION 101, ASTM F963-16 AND ASTM F963-17.	PASS
I) AS REQUESTED BY THE APPLICANT, TO DETERMINE PHTHALATES CONTENT OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH U.S. CONSUMER PRODUCT SAFETY IMPROVEMENT ACT OF 2008, SECTION 108 AND U.S. CALIFORNIA PROPOSITION 65.	PASS



Test Results:

**A) ASTM F963 – 16 Mechanical and Physical Test**

As per ASTM F963-16, Standard Consumer Safety Specification for Toy Safety.

The submitted samples were undergone the use and abuse tests in accordance with the Federal Hazardous Substances Act (FHSA), title 16, code of federal regulations\*:

Test Item(s)	FHSA	Parameter
Impact	Section 1500.51(b)	10 drops×4.5 ft
Torque	Section 1500.53(e)	4 in-lbf, 10 sec
Tension	Section 1500.53(f)	15 lbf, 10 sec
Compression	Section 1500.53(g)	30 lbf, 10 sec

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.1	Material Quality	Pass
4.3.7	Stuffing Materials	Pass
4.6	Small Objects	Pass
4.6.3	Labeling Requirements	Pass
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
4.12	Plastic Film	Pass
4.18	Holes, Clearance, and Accessibility of Mechanisms	Pass
5	Safety Labeling Requirements	Pass
6	Instructional Literature	Pass
7	Producer's Markings	
	- Name of Producer / Distributor	No
	- Address	No

- Note: 1. \* = The submitted samples were undergone the tests in accordance with section 8.5 through section 8.18 and 8.20 through 8.25 on normal use, abuse and specific tests for different types of toys whichever is applicable.
2. Only applicable clauses were shown.





**B) ASTM F963 – 17 Mechanical and Physical Test**

As per ASTM F963-17, Standard Consumer Safety Specification for Toy Safety.

The submitted samples were undergone the use and abuse tests in accordance with the Federal Hazardous Substances Act (FHSA), title 16, code of federal regulations\*:

Test Item(s)	FHSA	Parameter
Impact	Section 1500.51(b)	10 drops×4.5 ft
Torque	Section 1500.53(e)	4 in-lbf, 10 sec
Tension	Section 1500.53(f)	15 lbf, 10 sec
Compression	Section 1500.53(g)	30 lbf, 10 sec

Clause	Description	Result
4.1	Material Quality	Pass
4.3.7	Stuffing Materials	Pass
4.6	Small Objects	Pass
4.6.3	Labeling Requirements	Pass
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
4.12	Plastic Film	Pass
4.18	Holes, Clearance, and Accessibility of Mechanisms	Pass
5	Safety Labeling Requirements	Pass
6	Instructional Literature	Pass
7	Producer's Markings	
	- Name of Producer / Distributor	No
	- Address	No

- Note: 1. \* = The submitted samples were undergone the tests in accordance with section 8.5 through section 8.18 and 8.20 through 8.25 on normal use, abuse and specific tests for different types of toys whichever is applicable.
2. Only applicable clauses were shown.



**Test Report**

ID: RA0016512(4)R1

Date: 2018-1-10

Page 5 of 8

**C) ASTM F963 – 16 Flammability Test of Toys**

As per clause 4.2 of ASTM F963-16, Standard Consumer Safety Specification for Toy Safety.

Solids and Soft Toys Flammability Testing:

Sample Name	Burning Rate (inch/sec.)	Limit (inch/sec.)
Whoopee Cushion, Self-inflating Whoopee Cushion	0.03	0.10

Note: The submitted sample was tested, the above result only showed the most severe burning rate of the sample.

**D) ASTM F963 – 17 Flammability Test of Toys**

As per clause 4.2 of ASTM F963-17, Standard Consumer Safety Specification for Toy Safety.

Solids and Soft Toys Flammability Testing:

Sample Name	Burning Rate (inch/sec.)	Limit (inch/sec.)
Whoopee Cushion, Self-inflating Whoopee Cushion	0.03	0.10

Note: The submitted sample was tested, the above result only showed the most severe burning rate of the sample.

**E) ASTM F963 - 16 / ASTM F963-17 Soluble Elements in Accessible Substrate Materials**

With reference to ASTM F963-16 / ASTM F963-17 Clause 4.3.5.2 and 8.3.

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item	Cd	Pb	Hg	Cr	As	Sb	Se	Ba	---
Method Detection Limit (mg/kg)	5	5	2	5	2	2	5	5	---
Permissible Limit (mg/kg)	75	90	60	60	25	60	500	1000	---
Test Part Description	Result (mg/kg)								Comment
No.1 Green plastic	ND	ND	ND	ND	ND	ND	ND	ND	Pass
No.2 Pink plastic	ND	ND	ND	ND	ND	ND	ND	ND	Pass
No.3 White foam	ND	ND	ND	ND	ND	ND	ND	ND	Pass
No.4 Silvery metal chain	ND	ND	ND	ND	ND	ND	ND	ND	Pass
No.5 Silvery metal big ring	ND	ND	ND	ND	ND	ND	ND	ND	Pass
No.6 Silvery metal small ring	ND	ND	ND	ND	ND	ND	ND	ND	Pass
No.7 Silvery metal eyelet	ND	ND	ND	ND	ND	ND	ND	ND	Pass

**Test Report**

ID: RA0016512(4)R1

Date: 2018-1-10

Page 6 of 8

- Note:
1. mg/kg = Milligram per kilogram = ppm
  2. ND = Not detected (<Method detection limit)
  3. Results of soluble elements shown are of the adjusted analytical results.

**F) ASTM F963 - 16 / ASTM F963-17 Soluble Elements in Paint / Similar Surface Coating**

With reference to ASTM F963-16 / ASTM F963-17 Clause 4.3.5.1 and 8.3.

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item	Cd	Pb	Hg	Cr	As	Sb	Se	Ba	---
Method Detection Limit (mg/kg)	5	5	2	5	2	2	5	5	---
Permissible Limit (mg/kg)	75	90	60	60	25	60	500	1000	---
Test Part Description	Result (mg/kg)								Comment
No.1	Black coating on plastic								Pass

- Note:
1. mg/kg = Milligram per kilogram = ppm
  2. ND = Not detected (<Method detection limit)
  3. Results of soluble elements shown are of the adjusted analytical results.

**G) Total Lead in Accessible Substrate Materials**

With reference to CPSC-CH-E1002-08.3 &amp; CPSC-CH-E1001-08.3.

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item	Total Lead (Pb)	---
Method Detection Limit (mg/kg)	2	---
CPSIA / ASTM F963-16 / ASTM F963-17 Limit (mg/kg)	100	---
Test Part Description	Result (mg/kg)	Comment
No.1	5.7	Pass
No.2	ND	Pass
No.3	82.8	Pass
No.4	2.0	Pass

- Note:
1. mg/kg = Milligram per kilogram = ppm
  2. ND = Not detected (<Method detection limit)

**Test Report**

ID: RA0016512(4)R1

Date: 2018-1-10

Page 7 of 8

**H) Total Lead in Paint / Similar Surface Coating**

With reference to CPSC-CH-E1003-09.1.

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item		Total Lead (Pb)	---
Method Detection Limit (mg/kg)		2	---
CPSIA / ASTM F963-16 / ASTM F963-17 Limit (mg/kg)		90	---
Test Part Description		Result (mg/kg)	Comment
No.1	Black coating on plastic	ND	Pass

- Note:
1. mg/kg = Milligram per kilogram = ppm
  2. ND = Not detected (<Method detection limit)

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**I) CPSIA/CAL PROP 65 - Phthalates Content**

With reference to CPSC-CH-C1001-09.3, Standard Operating Procedure for Determination of Phthalates.

Analysis was performed by Gas Chromatography/Mass Spectrometry (GC-MS).

Test Item		DBP	BBP	DEHP	DIDP	DnHP DHEXP	---
Method Detection Limit (%)		0.003	0.003	0.003	0.010	0.003	---
CPSIA/Cal Prop 65 Limits (%)		0.1	0.1	0.1	0.1	0.1	---
Test Part Description		Result (%)					Comment
No.1	Green plastic Pink plastic	ND	ND	ND	ND	ND	Pass
No.2	White foam	ND	ND	ND	ND	ND	Pass
No.3	Black coating on plastic	ND	ND	ND	ND	ND	Pass

Test Item		DINP	DNOP	DiBP	DCHP	DPENP	---
Method Detection Limit (%)		0.010	0.003	0.003	0.010	0.010	---
Permissible Limit (%)		0.1	0.1	0.1	0.1	0.1	---
Test Part Description		Result (%)					Comment
No.1	Green plastic Pink plastic	ND	ND	ND	ND	ND	Pass
No.2	White foam	ND	ND	ND	ND	ND	Pass
No.3	Black coating on plastic	ND	ND	ND	ND	ND	Pass





- Note:
1. % = Percentage by weight (w/w)
  2. 0.1% = 1000ppm (mg/kg)
  3. ND = Not detected (<Method detection limit)

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The test result of the report is related to the item being tested only. UTL does not verify or be liable to any declare or declaration if the particular/specific item is not tested.





ANNEX A1

Sample Photo(s):



### Sample Photo(s):



\*\*\* End of Report \*\*\*