



STC TEST REPORT

Date: 2015-08-13

Page 1 of 14

No.: SP119425

Applicant : Wiggles 3D Incorporated
1124 Gainsborough Road, Suite 9
London ON Canada N6H5N1

Attn: Peter Nesbitt

Date Samples Received : 2015-08-07

Date Tested : 2015-08-07 to 2015-08-12

Description of Sample : One (1) piece of submitted sample said to be:
BELLZ
COUNTRY OF ORIGIN: CHINA
AGE GRADING FOR TESTING: 6+

Requirements	Conclusion
1. ASTM Standard Consumer Safety Specification For Toy Safety F 963-11 - physical and mechanical test - flammability test - heavy metal test	Pass
2. US Consumer Product Safety Improvement Act - Total Lead content in paint and surface coating in accordance with Sec. 101 (f) and 16 CFR 1303. - Total Lead content in substrate in accordance with Sec. 101(a). - Phthalates content in accordance with Sec 108.	Pass
3. The Total Lead content requirements according to the California Proposition 65	Pass
4. The BBP, DBP, DEHP, DnHP and DIDP content requirements according to the California Proposition 65.	Pass
5. The Total Lead content requirements according to Illinois Public Act 095-1019	Pass
6. The Phthalates content requirements according to California Assembly Bill NO.1108.	Pass
7. San Francisco Health Code - Phthalates content in accordance with Article 34, sec 34.2	Pass
8. Toys Regulations SOR/2011-17 under Canada Consumer Product Safety Act - Physical and Mechanical tests - Flammability tests - Toxic element analysis in surface coating - Phthalates content	Pass
9. Consumer Products Containing Lead (Contact with mouth) Regulations SOR/2010-273 - Total lead content in mouth-contact articles	Pass

HE Lijie, Bill
Toys and Children's Products Department
For and on behalf of
STC(Shanghai) Company Limited



STC (Shanghai) Company Limited

No.130, Huashen Road, Waigaoqiao Free Trade Zone, Shanghai, China (Zip code: 200131)

Tel: (86 21) 52198248 Fax: (86 21) 52198249 Homepage:www.shstc.org Email:shstc@shstc.org

This report shall not be reproduced unless with prior written approval from STC (Shanghai) Company Limited.

For conditions of Issuance of this test report, Please refer to the overleaf or homepage



STC TEST REPORT

Date: 2015-08-13

Page 2 of 14

No.: SP119425

TEST RESULTS:

1. ASTM Standard Consumer Safety Specification for Toy Safety F 963-11

AGE GRADING:

The sample was appropriately age graded with the marking of “ 6+ ”.

AGE GRADING FOR TESTING:

72 months and up.

1.1 Mechanical and physical hazards of the submitted sample

Ref.: ASTM F 963-11

Applicable requirements before and after use and abuse testing:

<u>Applicable Section</u>	<u>Description</u>	<u>Result</u>
4	<u>Safety requirements</u>	----
4.1	Material Quality	Pass
4.2	Flammability	Pass* ¹
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
4.12	Plastic Film	Pass
4.38	Magnets	Pass
5	<u>Labeling Requirements</u>	----
5.2	Age grading Labeling	Pass
7	<u>Producer's Markings</u>	----
7.1	Producer's Name and Address	Pass

*¹ = Please refer to section 1.2 of this report for details.

<u>Applicable Section</u>	<u>Description</u>	<u>Test Condition</u>
8.5	Normal Use Testing	
8.6	Abuse Testing	
8.7	Drop Tests	4 drops at 3 ft
8.8	Torque Tests	4 in-lbs or $\pm 180^\circ$
8.9	Tension Tests	15 lbs.
8.10	Compression Tests	30 lbs.

1.2 Flammability test for solids and soft toys

Ref.: ASTM F 963-11 Section 4.2

Method used: FHSA 16 CFR 1500.44

Result: Pass

<u>Sample</u>	<u>Burn rate (in/sec.)</u>
HANDLE	DNI
BAG	0.01

DNI = Did not ignite

Note: The burning rate should not be greater than 0.1 inch per second.

STC (Shanghai) Company Limited

No.130, Huashen Road, Waigaoqiao Free Trade Zone, Shanghai, China (Zip code: 200131)

Tel: (86 21) 52198248 Fax: (86 21) 52198249 Homepage: www.shstc.org Email: shstc@shstc.org

This report shall not be reproduced unless with prior written approval from STC (Shanghai) Company Limited.

For conditions of Issuance of this test report, Please refer to the overleaf or homepage



STC TEST REPORT

Date: 2015-08-13

Page 3 of 14

No.: SP119425

TEST RESULTS:

1.3 Heavy element

Ref.: ASTM F963-11 Section 4.3.5

Method: ASTM F963-11 Section 8.3

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

4.3.5.1 Paint and similar surface-coating

Total lead analysis

Coating material

- (1) Coating on zipper head: black
 Coating on bell: green
 Coating on bell: light blue
- (2) Coating on bell: purple
 Coating on bell: orange
 Coating on specification: black

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
(1)	<10ppm	90ppm
(2)	<10ppm	90ppm

Soluble metals test

Coating material

- (1) Coating on zipper head: black
- (2) Coating on bell: green
- (3) Coating on bell: light blue
- (4) Coating on bell: purple
- (5) Coating on bell: orange

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

4.3.5.2 Toys Substrate Materials

Total lead test

Plastic material

- (1) Zipper tooth: black
 Plastic of hand shank: orange
- (2) Film on hand shank: transparent with multicolour print

STC (Shanghai) Company Limited

No.130, Huashen Road, Waigaoqiao Free Trade Zone, Shanghai, China (Zip code: 200131)

Tel: (86 21) 52198248 Fax: (86 21) 52198249 Homepage:www.shstc.org Email:shstc@shstc.org

This report shall not be reproduced unless with prior written approval from STC (Shanghai) Company Limited.

For conditions of Issuance of this test report, Please refer to the overleaf or homepage



STC TEST REPORT

Date: 2015-08-13

Page 4 of 14

No.: SP119425

TEST RESULTS:

Rubber material

- (3) Rubber: white
Rubber: light blue

Metal material

- (4) Metal in rubber: silver
Zipper head(substrate): silver
Bell(substrate): silver

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
(1)	<10ppm	100ppm
(2)	<10ppm	100ppm
(3)	<10ppm	100ppm
(4)	<10ppm	100ppm

Soluble metals test:

Plastic material

- (1) Zipper tooth: black
- (2) Plastic of hand shank: orange
- (3) Film on hand shank: transparent with multicolour print

Rubber material

- (4) Rubber: white
- (5) Rubber: light blue

Textile material

- (6) Fabric of zipper: black
- (7) Fabric of the rope: black
- (8) Fabric: multicolour

Paper material

- (9) Fabric of zipper: black

Metal material

- (10) Metal in rubber: silver*²
- (11) Zipper head(substrate): silver*²
- (12) Bell(substrate): silver*²

*² = According to requirement of ASTM F963-11, materials such as metal, glass, and ceramic are exempted if they are not small parts.



STC TEST REPORT

Date: 2015-08-13

Page 5 of 14

No.: SP119425

TEST RESULTS:

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	8ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	6ppm	7ppm	8ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	6ppm	8ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	3ppm	8ppm	25ppm
Soluble mercury.....	<5ppm	5ppm	<5ppm	7ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

	<u>9</u>	<u>Limit</u>
Soluble lead.....	<5ppm	90ppm
Soluble cadmium.....	<5ppm	75ppm
Soluble chromium.....	<5ppm	60ppm
Soluble barium.....	<5ppm	1000ppm
Soluble antimony.....	<5ppm	60ppm
Soluble arsenic.....	<2ppm	25ppm
Soluble mercury.....	<5ppm	60ppm
Soluble selenium.....	<5ppm	500ppm

Note: < denotes less than

2. US Consumer Product Safety Improvement Act

2.1 Children's products containing lead - Total Lead content in paint and surface coating

Ref.: CPSIA Sec 101(f) and 16 CFR 1303

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Coating material

- (1) Coating on zipper head: black
Coating on bell: green
Coating on bell: light blue
- (2) Coating on bell: purple
Coating on bell: orange
Coating on specification: black

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
(1)	<10ppm	90ppm
(2)	<10ppm	90ppm

Note: < denotes less than

STC (Shanghai) Company Limited



STC TEST REPORT

Date: 2015-08-13

Page 6 of 14

No.: SP119425

TEST RESULTS:

2.2 Children's products containing lead - Total Lead content in substrate

Ref.: CPSIA Sec 101(a)

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Plastic material

- (1) Zipper tooth: black
Plastic of hand shank: orange
- (2) Film on hand shank: transparent with multicolour print

Rubber material

- (3) Rubber: white
Rubber: light blue

Metal material

- (4) Metal in rubber: silver
Zipper head(substrate): silver
Bell(substrate): silver

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
(1)	<10ppm	100ppm
(2)	<10ppm	100ppm
(3)	<10ppm	100ppm
(4)	<10ppm	100ppm

Note: < denotes less than.

2.3 Phthalates content

Ref.: CPSIA Sec 108

Determined by: Gas Chromatography with Mass Selective Detector

Coating material

- (1) Coating on zipper head: black
Coating on bell: green
Coating on bell: light blue
- (2) Coating on bell: purple
Coating on bell: orange
- (3) Coating on specification: black

Plastic material

- (4) Zipper tooth: black
Plastic of hand shank: orange
- (5) Film on hand shank: transparent with multicolour print

Rubber material

- (6) Rubber: white
Rubber: light blue

STC (Shanghai) Company Limited

No.130, Huashen Road, Waigaoqiao Free Trade Zone, Shanghai, China (Zip code: 200131)

Tel: (86 21) 52198248 Fax: (86 21) 52198249 Homepage:www.shstc.org Email:shstc@shstc.org

This report shall not be reproduced unless with prior written approval from STC (Shanghai) Company Limited.

For conditions of Issuance of this test report, Please refer to the overleaf or homepage



STC TEST REPORT

Date: 2015-08-13

Page 7 of 14

No.: SP119425

TEST RESULTS:

- Di-n-butyl phthalate (DBP)	<u>1</u> <100ppm	<u>2</u> <100ppm	<u>3</u> <100ppm
- Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm
- Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	144ppm	<100ppm
- Di-n-butyl phthalate (DBP)	<u>4</u> <100ppm	<u>5</u> <100ppm	
- Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	
- Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	<100ppm	

Requirement: Each of the above phthalates shall not be greater than 1000ppm by mass of the tested material.

Note: < denotes less than

- Di-n-octyl phthalate (DNOP)	<u>1</u> <100ppm	<u>2</u> <100ppm	<u>3</u> <100ppm
- Diisononyl phthalate (DINP)	<100ppm	<100ppm	<100ppm
- Diisodecyl phthalate (DIDP)	<100ppm	<100ppm	<100ppm
- Di-n-octyl phthalate (DNOP)	<u>4</u> <100ppm	<u>5</u> <100ppm	
- Diisononyl phthalate (DINP)	<100ppm	<100ppm	
- Diisodecyl phthalate (DIDP)	<100ppm	<100ppm	

Requirement: Each of the above phthalates shall not be greater than 1000ppm by mass of the tested material which can be placed in the mouth by children.

Note: < denotes less than

3. The Total Lead Content

Ref.: California Proposition 65

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Coating material

- (1) Coating on zipper head: black
Coating on bell: green
Coating on bell: light blue
- (2) Coating on bell: purple
Coating on bell: orange
Coating on specification: black

Plastic material

- (3) Zipper tooth: black
Plastic of hand shank: orange
- (4) Film on hand shank: transparent with multicolour print

STC (Shanghai) Company Limited

No.130, Huashen Road, Waigaoqiao Free Trade Zone, Shanghai, China (Zip code: 200131)

Tel: (86 21) 52198248 Fax: (86 21) 52198249 Homepage:www.shstc.org Email:shstc@shstc.org

This report shall not be reproduced unless with prior written approval from STC (Shanghai) Company Limited.

For conditions of Issuance of this test report, Please refer to the overleaf or homepage



STC TEST REPORT

Date: 2015-08-13

Page 8 of 14

No.: SP119425

TEST RESULTS:

Rubber material

- (5) Rubber: white
Rubber: light blue

Metal material

- (6) Metal in rubber: silver
Zipper head(substrate): silver
Bell(substrate): silver

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
(1)	<10ppm	90ppm
(2)	<10ppm	90ppm
(3)	<10ppm	100ppm
(4)	<10ppm	100ppm
(5)	<10ppm	100ppm
(6)	<10ppm	100ppm

Note: < denotes less than

4. The BBP, DBP, DEHP, DnHP, DINP and DIDP content

Ref.: California Proposition 65

Determined by: Gas Chromatography with Mass Selective Detector

Coating material

- (1) Coating on zipper head: black
Coating on bell: green
Coating on bell: light blue
(2) Coating on bell: purple
Coating on bell: orange
(3) Coating on specification: black

Plastic material

- (4) Zipper tooth: black
Plastic of hand shank: orange
(5) Film on hand shank: transparent with multicolour print

Rubber material

- (6) Rubber: white
Rubber: light blue

-	Di-n-butyl phthalate (DBP)	<100ppm	<100ppm	<100ppm
-	Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm
-	Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	144ppm	<100ppm
-	Di-n-Hexyl phthalate (DnHP)	<100ppm	<100ppm	<100ppm
-	Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm	<100ppm
-	Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm	<100ppm

STC (Shanghai) Company Limited

No.130, Huashen Road, Waigaoqiao Free Trade Zone, Shanghai, China (Zip code: 200131)

Tel: (86 21) 52198248 Fax: (86 21) 52198249 Homepage:www.shstc.org Email:shstc@shstc.org

This report shall not be reproduced unless with prior written approval from STC (Shanghai) Company Limited.

For conditions of Issuance of this test report, Please refer to the overleaf or homepage



STC TEST REPORT

Date: 2015-08-13

Page 9 of 14

No.: SP119425

TEST RESULTS:

-	Di-n-butyl phthalate (DBP)	<u>4</u> <100ppm	<u>5</u> <100ppm
-	Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm
-	Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	<100ppm
-	Di-n-Hexyl phthalate (DnHP)	<100ppm	<100ppm
-	Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm
-	Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm

Requirement: Each of the above phthalates shall not be greater than 1000ppm by mass of the tested material.

Note: < denotes less than

5. The Total Lead Content requirements according to Illinois Public Act 095-1019

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Coating material

- (1) Coating on zipper head: black
Coating on bell: green
Coating on bell: light blue
- (2) Coating on bell: purple
Coating on bell: orange
Coating on specification: black

Plastic material

- (3) Zipper tooth: black
Plastic of hand shank: orange
- (4) Film on hand shank: transparent with multicolour print

Rubber material

- (5) Rubber: white
Rubber: light blue

Metal material

- (6) Metal in rubber: silver
Zipper head(substrate): silver
Bell(substrate): silver

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
(1)	<10ppm	40ppm
(2)	<10ppm	40ppm
(3)	<10ppm	40ppm
(4)	<10ppm	40ppm
(5)	<10ppm	40ppm
(6)	<10ppm	40ppm

Note: < denotes less than

STC (Shanghai) Company Limited



STC TEST REPORT

Date: 2015-08-13

Page 10 of 14

No.: SP119425

TEST RESULTS:

6. Phthalates content

Ref.: California Assembly Bill NO.1108

Determined by: Gas Chromatography with Mass Selective Detector

Coating material

- (1) Coating on zipper head: black
Coating on bell: green
Coating on bell: light blue
- (2) Coating on bell: purple
Coating on bell: orange
- (3) Coating on specification: black

Plastic material

- (4) Zipper tooth: black
Plastic of hand shank: orange
- (5) Film on hand shank: transparent with multicolour print

Rubber material

- (6) Rubber: white
Rubber: light blue

A. Any toy or children article

Test Item	CAS No.	Result(ppm)		Limit(ppm)
		<u>1</u>	<u>2</u>	
Dibutyl phthalate(DBP)	84-74-2	<100	<100	1000
Butyl benzyl phthalate (BBP)	85-68-7	<100	<100	1000
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<100	144	1000

Test Item	CAS No.	Result(ppm)		Limit(ppm)
		<u>3</u>	<u>4</u>	
Dibutyl phthalate(DBP)	84-74-2	<100	<100	1000
Butyl benzyl phthalate (BBP)	85-68-7	<100	<100	1000
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<100	<100	1000

Test Item	CAS No.	Result(ppm)		Limit(ppm)
		<u>5</u>	<u>6</u>	
Dibutyl phthalate(DBP)	84-74-2	<100	<100	1000
Butyl benzyl phthalate (BBP)	85-68-7	<100	<100	1000
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<100	<100	1000

B. Any toys and children articles which can be placed in mouth for children under 3 years

Test Item	CAS No.	Result(ppm)		Limit(ppm)
		<u>1</u>	<u>2</u>	
Di-n-octyl phthalate(DNOP)	117-84-0	<100	<100	1000
Di-iso-decyl phthalate(DIDP)	26761-40-0	<100	<100	1000
Di-iso-nonyl phthalate(DINP)	28553-12-0	<100	<100	1000

STC (Shanghai) Company Limited

No.130, Huashen Road, Waigaoqiao Free Trade Zone, Shanghai, China (Zip code: 200131)

Tel: (86 21) 52198248 Fax: (86 21) 52198249 Homepage:www.shstc.org Email:shstc@shstc.org

This report shall not be reproduced unless with prior written approval from STC (Shanghai) Company Limited.

For conditions of Issuance of this test report, Please refer to the overleaf or homepage



STC TEST REPORT

Date: 2015-08-13

Page 11 of 14

No.: SP119425

TEST RESULTS:

Test Item	CAS No.	Result(ppm)		Limit(ppm)
		<u>3</u>	<u>4</u>	
Di-n-octyl phthalate(DNOP)	117-84-0	<100	<100	1000
Di-iso-decyl phthalate(DIDP)	26761-40-0	<100	<100	1000
Di-iso-nonyl phthalate(DINP)	28553-12-0	<100	<100	1000

Test Item	CAS No.	Result(ppm)		Limit(ppm)
		<u>5</u>	<u>6</u>	
Di-n-octyl phthalate(DNOP)	117-84-0	<100	<100	<100
Di-iso-decyl phthalate(DIDP)	26761-40-0	<100	<100	<100
Di-iso-nonyl phthalate(DINP)	28553-12-0	<100	<100	<100

Note: < denotes less than.

7. Phthalates content

Ref.: San Francisco Health Code Article 34, sec 34.2

Determined by: Gas Chromatography with Mass Selective Detector

Coating material

- (1) Coating on zipper head: black
Coating on bell: green
Coating on bell: light blue
- (2) Coating on bell: purple
Coating on bell: orange
- (3) Coating on specification: black

Plastic material

- (4) Zipper tooth: black
Plastic of hand shank: orange
- (5) Film on hand shank: transparent with multicolour print

Rubber material

- (6) Rubber: white
Rubber: light blue

-	Di-n-butyl phthalate (DBP)	<u>1</u>	<u>2</u>	<u>3</u>
-	Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm
-	Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	144ppm	<100ppm
-	Di-n-octyl phthalate (DNOP)	<100ppm	<100ppm	<100ppm
-	Diisononyl phthalate (DINP)	<100ppm	<100ppm	<100ppm
-	Diisodecyl phthalate (DIDP)	<100ppm	<100ppm	<100ppm

STC (Shanghai) Company Limited

No.130, Huashen Road, Waigaoqiao Free Trade Zone, Shanghai, China (Zip code: 200131)

Tel: (86 21) 52198248 Fax: (86 21) 52198249 Homepage:www.shstc.org Email:shstc@shstc.org

This report shall not be reproduced unless with prior written approval from STC (Shanghai) Company Limited.

For conditions of Issuance of this test report, Please refer to the overleaf or homepage



STC TEST REPORT

Date: 2015-08-13

Page 12 of 14

No.: SP119425

TEST RESULTS:

	<u>4</u>	<u>5</u>	<u>6</u>
- Di-n-butyl phthalate (DBP)	<100ppm	<100ppm	<100ppm
- Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm
- Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	<100ppm	<100ppm
- Di-n-octyl phthalate (DNOP)	<100ppm	<100ppm	<100ppm
- Diisononyl phthalate (DINP)	<100ppm	<100ppm	<100ppm
- Diisodecyl phthalate (DIDP)	<100ppm	<100ppm	<100ppm

Requirement: Each of the above phthalates shall not be greater than 1000ppm by mass of the tested material.

Note: < denotes less than

8. Toys Regulations SOR/2011-17 under Canada Consumer Product Safety Act

AGE GRADING:

The sample was appropriately age graded with the marking of “ 6+ ”.

AGE GRADING FOR TESTING:

72 months and up

8.1 Physical and Mechanical Test

Ref.: Toys Regulations SOR/2011-17, Canada Consumer Product Safety Act

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
3	General	Pass
4	Flexible film bags	Pass
8	Exposed metal edges	Pass
10	Plastic edges	Pass
21	Cellulose nitrate detection	See 8.2.1

8.2 Flammability Tests

8.2.1 Cellulose nitrate detection

Ref.: Toys Regulations SOR/2011-17, section 21

Result: not detected.

8.3 Toxic elements analysis

Ref.: Toys Regulations SOR/2011-17, section 23 and Canada Gazette Part II Vol. 145 No.4

Method used: Inductively Coupled Plasma Emission Spectrophotometer & Inductively Coupled Plasma Mass Spectrometry

Coating material

- (1) Coating on zipper head: black
- (2) Coating on bell: green
- (3) Coating on bell: light blue
- (4) Coating on bell: purple
- (5) Coating on bell: orange
- (6) Coating on specification: black

STC (Shanghai) Company Limited

No.130, Huashen Road, Waigaoqiao Free Trade Zone, Shanghai, China (Zip code: 200131)

Tel: (86 21) 52198248 Fax: (86 21) 52198249 Homepage:www.shstc.org Email:shstc@shstc.org

This report shall not be reproduced unless with prior written approval from STC (Shanghai) Company Limited.

For conditions of Issuance of this test report, Please refer to the overleaf or homepage



STC TEST REPORT

Date: 2015-08-13

Page 13 of 14

No.: SP119425

TEST RESULTS:

	<u>1</u>	<u>2</u>	<u>3</u>	<u>Limit</u>
Total lead.....	<10mg/kg	<10mg/kg	<10mg/kg	90mg/kg
Total mercury.....	<5mg/kg	<5mg/kg	<5mg/kg	10mg/kg
Soluble cadmium.....	<0.001%	<0.001%	<0.001%	0.1%
Soluble barium.....	<0.001%	0.0015%	<0.001%	0.1%
Soluble antimony.....	0.0011%	0.0027%	0.0011%	0.1%
Soluble arsenic.....	<0.001%	<0.001%	<0.001%	0.1%
Soluble selenium.....	<0.001%	<0.001%	<0.001%	0.1%
	<u>4</u>	<u>5</u>	<u>Limit</u>	
Total lead.....	<10mg/kg	<10mg/kg	90mg/kg	
Total mercury.....	<5mg/kg	<5mg/kg	10mg/kg	
Soluble cadmium.....	<0.001%	<0.001%	0.1%	
Soluble barium.....	<0.001%	<0.001%	0.1%	
Soluble antimony.....	<0.001%	<0.001%	0.1%	
Soluble arsenic.....	<0.001%	<0.001%	0.1%	
Soluble selenium.....	<0.001%	<0.001%	0.1%	

8.4 Phthalates content

Ref.: Toys Regulations SOR/2011-17, section 27(3d) and Phthalates Regulation SOR/2010-298
Determined by: Gas Chromatography Mass Spectrometer

Coating material

- (1) Coating on zipper head: black
Coating on bell: green
Coating on bell: light blue
- (2) Coating on bell: purple
Coating on bell: orange
- (3) Coating on specification: black

Plastic material

- (4) Zipper tooth: black
Plastic of hand shank: orange
- (5) Film on hand shank: transparent with multicolour print

Rubber material

- (6) Rubber: white
Rubber: light blue

	<u>1</u>	<u>2</u>	<u>3</u>	<u>Limit</u>
- Di-n-butyl phthalate (DBP)	ND	ND	ND	1000mg/kg
- Benzyl-n-butyl phthalate (BBP)	ND	ND	ND	1000mg/kg
- Di (2-ethylhexyl) phthalate (DEHP)	ND	144	ND	1000mg/kg
- Di-n-octyl phthalate (DNOP)	ND	ND	ND	1000mg/kg*4
- Diisononyl phthalate (DINP)	ND	ND	ND	1000mg/kg*4
- Diisodecyl phthalate (DIDP)	ND	ND	ND	1000mg/kg*4

STC (Shanghai) Company Limited



STC TEST REPORT

Date: 2015-08-13

Page 14 of 14

No.: SP119425

TEST RESULTS:

	<u>4</u>	<u>5</u>	<u>Limit</u>
- Di-n-butyl phthalate (DBP)	ND	ND	1000mg/kg
- Benzyl-n-butyl phthalate (BBP)	ND	ND	1000mg/kg
- Di (2-ethylhexyl) phthalate (DEHP)	ND	ND	1000mg/kg
- Di-n-octyl phthalate (DNOP)	ND	ND	1000mg/kg*4
- Diisononyl phthalate (DINP)	ND	ND	1000mg/kg*4
- Diisodecyl phthalate (DIDP)	ND	ND	1000mg/kg*4

*4 = The content of each phthalate above shall not be greater than 1000mg/kg by mass of the plasticised material which can be placed in the mouth of children under 4 years of age.

Notes: ND = Not Detected
Method detection limit = 100mg/kg

9. Total lead content in mouth-contact articles

Ref.: Consumer Products Containing Lead (Contact with mouth) Regulations SOR/2010-273
Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Coating material

- (1) Coating on zipper head: black
- (2) Coating on bell: green
- (3) Coating on bell: light blue
- (4) Coating on bell: purple
- (5) Coating on bell: orange
- (6) Coating on specification: black

Total lead.....	<u>1</u>	<u>2</u>	<u>3</u>	<u>Limit</u>
	<10mg/kg	<10mg/kg	<10mg/kg	90mg/kg
Total lead.....	<u>4</u>	<u>5</u>	<u>6</u>	<u>Limit</u>
	<10mg/kg	<10mg/kg	<10mg/kg	90mg/kg

The photo of submitted samples



***** End of Test Report *****

STC (Shanghai) Company Limited

No.130, Huashen Road, Waigaoqiao Free Trade Zone, Shanghai, China (Zip code: 200131)
Tel: (86 21) 52198248 Fax: (86 21) 52198249 Homepage:www.shstc.org Email:shstc@shstc.org
This report shall not be reproduced unless with prior written approval from STC (Shanghai) Company Limited.
For conditions of Issuance of this test report, Please refer to the overleaf or homepage