



# Test Report

Report No.: UNIB22072712GR-01

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Applicant : Frenzy Toys Ltd.

Address : Room 1108, 11/F., Goodluck Industrial Centre, 808 Lai Chi Kok Road, Cheung Sha Wan, Kowloon. Hong Kong.

Name of sample : 6IN BEACH DOLL W/ COMB & SWIM RING 2 AST

Receiving Date : Jul. 27, 2022

Test Date : Jul. 27, 2022-Aug. 05, 2022

Test Address : No.47-3, Industrial Road, Zhushan, Dalong Street, Panyu District, Guangzhou, Guangdong, China

Test Method(s) : Please refer to "Test Results"

Testing Item(s) : Please refer to next page(s)

Decision Basis : Please refer to next page(s)

Conclusion : Pass

Signed for and on behalf of  
Shenzhen United Testing Technology Co.,Ltd

Liu Ze  
Approved Signatory

Aug. 06, 2022

Issue Date



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## 1、 Conclusion

The sample(s) was/were detected and according to the results, the conclusion are as follows:

Test Item(s)		Testing Standard(s)	Decision Basis	Conclusion
ASTM F963-17	Mechanical and Physical Properties	ASTM F963-17	ASTM F963-17 clause 4.1,4.7,4.9	Pass
	Flammability	ASTM F963-17	ASTM F963-17 clause 4.2	Pass
	Total lead Content in Surface coating	CPSC-CH-E1003-09.1:2011	ASTM F963-17 clause 4.3.5.1(1)	Pass
	Total lead Content in Substrate	CPSC-CH-E1002-08.3:2012	ASTM F963-17 clause 4.3.5.2(2) (a)	Pass
	Migration of certain elements	ASTM F963-17 clause 4.3.5.1(2), 4.3.5.2(2) (b)	ASTM F963-17 clause 4.3.5.1(2), 4.3.5.2(2) (b)	Pass
CPSIA	Total lead Content in Surface coating	CPSC-CH-E1003-09.1:2011	CPSIA SECT. 101(f)	Pass
	Total lead Content in Substrate	CPSC-CH-E1002-08.3:2012	CPSIA SECT. 101(a)	Pass
	Phthalates Content	CPSC-CH-C1001-09.4:2018 EN 14372:2004	CPSIA SECT. 108 REACH Regulation-EC/1907/2006 ANNEX XVII	Pass

## 2、 Sample information(s)

The following information of sample(s) was/were submitted and identified by applicant:

Product Model : G16275 (DL0031A)

Color : BLUE / PINK

Buyer : REGENT PRODUCTS CORP.

Supplier : FRENZY TOYS LTD.

Manufacturer : Mezotye Toys Co., LTD

Country of Origin : CHINA

Country of Destination : USA

Age Grading : 3+



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## 3、ASTM F963

### 3.1 Toy Physics Test Data

#### 3.1.1 Mechanical and Physical Properties

As per ASTM Standard on Safety of toys F963-17

Age Group Assessed As Per Age Guideline: 3+

Age Group Applied in Testing: 3+

Labeled Age Group: 3+

The submitted samples were undergone the following abuse tests:

Test	Clause	Parameter
Torque test	8.8	4 in-lbf
Tension test	8.9.1	15 lbf
Drop test	8.7.1	4 times x 3.0ft

Clause	Testing Items	Assessment
4.0	General requirements	
4.1	Material Quality	Pass
4.2	Flammability	
	A 5. Flammability testing for solids and soft toys	Pass
	A 6. Flammability testing for Fabrics	N/A
4.3.7	Stuffing Materials	N/A
4.5	Sound Producing Toys	N/A
4.6	Small Objects	N/A
4.7	Accessible Edges	Pass
4.8	Projections	N/A
4.9	Accessible Points	Pass
4.10	Wires or Rods	N/A
4.11	Nails and Fasteners	N/A
4.12	Packaging Film	N/A
4.13	Folding Mechanism and Hinges	N/A
4.14	Cords, straps and elastics	N/A
4.15	Stability and Over-Load Requirements	N/A
4.16	Confined Spaces	N/A
4.17	Wheels, Tires and Axles	N/A
4.18	Holes, Clearance and Accessibility of Mechanisms	N/A
4.19	Simulated Protective Devices	N/A

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SZ: 2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang Community, Xixiang Str, Bao'an District, Shenzhen, China.

深圳市宝安区西乡街道铁岗社区宝田一路365号嘉皇源科技园附楼2楼(P.C.518102) Tel:+86-755-86180996 Fax:+86-755-86180156

GZ: #47-3, Industrial Road, Zhushan Village, Dalong Street, Panyu District, Guangzhou, China.

广州市番禺区大龙街竹山村工业路 47-3 (P.C. 511450) Tel:+86-20-39277769 Fax:+86-755-86180156



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Clause	Testing Items	Assessment
4.20	Pacifiers	N/A
4.21	Projectiles Toys	N/A
4.22	Teethers and Teething Toys	N/A
4.23	Rattles	N/A
4.24	Squeeze Toys	N/A
4.25	Battery Operated Toys	N/A
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed and Beanbag-Type Toys	N/A
4.28	Stroller and Carriage Toys	N/A
4.29	Art materials	N/A
4.30	Toy Gun Markings	N/A
4.31	Balloons	N/A
4.32	Certain Toys with Spherical Ends	N/A
4.33	Marbles	N/A
4.34	Balls	N/A
4.35	Pompoms	N/A
4.36	Hemispheric-Shaped Objects	N/A
4.37	Yo Yo elastic tether toys	N/A
4.38	Magnets	N/A
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A
4.40	Expanding Materials	N/A
4.41	Toy Chests	N/A
5.0	Safety Labeling Requirements	
5.1	Federal Government Requirements	N/A
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	N/A
5.4	Aquatic Toys	N/A
5.5	Crib and Playpen Toys	N/A
5.6	Mobiles	N/A
5.7	Stroller and Carriage Toys	N/A
5.8	Toys Intended to be Assembled by an Adult	N/A

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Clause	Testing Items	Assessment
5.9	Simulated Protective Devices	N/A
5.10	Toys with Functional Sharp Edges and Sharp Points	N/A
5.11	Small Objects, Small Balls, Marbles, and Balloons	N/A
5.12	Toy Caps	N/A
5.13	Art Materials	N/A
5.14	Electric Toys	N/A
5.15	Battery-Operated Toys	N/A
5.16	Promotional Materials	Pass
5.17	Magnets	N/A
6.0	Instructional Literature	
6.1	Definition and Description	Pass
6.2	Crib and Playpen Toys	N/A
6.3	Mobiles	N/A
6.4	Toys Intended to be Assembled by an Adult	N/A
6.5	Battery-Operated Toys	N/A
6.6	Battery Powered Ride-on Toys	N/A
6.7	Toys in Contact with Food	N/A
6.8	Toys Chests	N/A
7.0	Producer's Markings	
7.1	Name of producer/distributor (Toy/Package)	Pass
	Address (Toy/Package)	Pass
7.2	Battery – Powered Ride – on Toys	N/A
7.3	Toy Chests	N/A
8.5	Normal Use Testing	Pass
8.7	Impact Test	Pass
8.7.1	Drop Test	Pass
8.7.2	Tipover Test for Large, Bulky Toys	N/A
8.7.3	Tumble Test for Wheeled Toys	N/A
8.7.4	Impact Test for Toys that Cover the Face	N/A
8.8	Torque Test	Pass
8.9	Tension Test	Pass

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Clause	Testing Items	Assessment
8.9.1	Tension Test for Seams in Stuffed Toys and Beanbag Type Toys	N/A
8.10	Compression Test	N/A
8.11	Test for Tire Removal and snap-in wheel and axle assembly removal	N/A
8.12	Flexure Test	N/A
8.13	Test for Mouth-Actuated Toys and Mouth-Actuated Projectile Toys	N/A
8.14	Projectiles	N/A
8.15	Test for Stability of Ride-on Toys or Toy Seats	N/A
8.16	Tension Test for Pompoms	N/A
8.17	Stalled Motor Test for Battery-operated Toys	N/A
8.18	Tests for Battery-Powered Ride-on Toys	N/A
8.19	Tests for Toys that Contain Secondary Cells or Batteries	N/A
8.20	Tests for Toys Which Produce Noise	N/A
8.21	Dynamic Strength Test for Wheeled Ride-on Toys	N/A
8.22	Plastic Film Thickness	N/A
8.23	Test for Loops and Cords	N/A
8.24	Yoyo Elastic Tether Toy Test Methods	N/A
8.25	Magnet Test Methods	N/A
8.26	Test Methods for Locking Mechanisms or Other Means	N/A
8.27	Test for Toy Chest Lids and Closures	N/A
8.28	Test for Overload of Ride-on Toys and Toy Seats	N/A
8.29	Stuffing Materials Evaluation	N/A
8.30	Expanding Materials Test Method	N/A

Remark: N/A = Not Applicable N/P = Not Performed “\*” =Not Certified by CNAS

### 3.1.2 Flammability

As per section 4.2 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, the samples were tested according to Annex A5 Flammability Testing Procedure for Solids and Soft Toys.

Sample	Ignition Point	Burn Length (inch)	Time(Sec)	Actual Burn rate(inch/sec)	Limit(inch/sec)
Doll	Front	0	0	DNI	0.1
Comb	Front	0	0	DNI	0.1
Swim Ring	Front	0	0	DNI	0.1

Remark: IGN=Ignite DNI=Do not ignite SE= self-extinguished

## 3.2 Toy Chemical Test Data

### 3.2.1 Test Part Description

No.	Description	Material
M001	Pink plastic	Polymer
M002	Flesh-colored plastic	Polymer
M003	White coating	Coating
M004	Black coating	Coating
M005	Blue coating	Coating
M006	Blonde hair	Polymer
M007	Brown hair	Polymer
M008	Orange fabric	Textile
M009	White fabric	Textile
M010	Yellow fabric	Textile
M011	Blue fabric	Textile
M012	Purple fabric	Textile
M013	Green fabric	Textile
M014	Red fabric	Textile
M015	Pink coating	Coating
M016	Blue plastic (lifebuoy)	Polymer
M017	Transparent plastic (lifebuoy)	Polymer
M018	White sticky paper	Polymer
M019	Pink plastic (lifebuoy)	Polymer
M020	Velcro (hook surface)	Polymer
M021	Velcro (fleece surface)	Polymer

**Note:** This table is used to identify each test part of the Sample. Different descriptions in the "Description" column are only used to distinguish each test part. "Material" column are only gives a simple Description of the material of each test part, which does not mean that this is the result of a material identification.

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## 3.2.2 Test Results

### 3.2.2.1 Total lead Content in Surface coating Test

#### 3.2.2.1.1 M003

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1003-09.1:2011	10	ND	90	mg/kg	Pass

#### 3.2.2.1.2 M004

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1003-09.1:2011	10	ND	90	mg/kg	Pass

#### 3.2.2.1.3 M005

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1003-09.1:2011	10	ND	90	mg/kg	Pass

#### 3.2.2.1.4 M015

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1003-09.1:2011	10	ND	90	mg/kg	Pass

### 3.2.2.2 Total lead Content in Substrate Test

#### 3.2.2.2.1 M001

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

#### 3.2.2.2.2 M002

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

#### 3.2.2.2.3 M006

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

#### 3.2.2.2.4 M007

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1001-08.3:2012	10	ND	100	mg/kg	Pass

#### 3.2.2.2.5 M008

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

#### 3.2.2.2.6 M009

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

#### 3.2.2.2.7 M010

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

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## 3.2.2.2.8 M011

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

## 3.2.2.2.9 M012

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

## 3.2.2.2.10 M013

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

## 3.2.2.2.11 M014

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

## 3.2.2.2.12 M016

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

## 3.2.2.2.13 M017

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

## 3.2.2.2.14 M018

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

## 3.2.2.2.15 M019

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

## 3.2.2.2.16 M020

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

## 3.2.2.2.17 M021

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

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## 3.2.2.3 Migration of certain elements

### 3.2.2.3.1 M001

Element	MDL	Result	Limit	Unit	Verdict
Antimony (Sb)	10	ND	60	mg/kg	Pass
Arsenic (As)	5	ND	25	mg/kg	Pass
Barium (Ba)	10	ND	1000	mg/kg	Pass
Cadmium (Cd)	5	ND	75	mg/kg	Pass
Chromium (Cr)	5	ND	60	mg/kg	Pass
Lead (Pb)	5	ND	90	mg/kg	Pass
Mercury (Hg)	5	ND	60	mg/kg	Pass
Selenium (Se)	5	ND	500	mg/kg	Pass

### 3.2.2.3.2 M002

Element	MDL	Result	Limit	Unit	Verdict
Antimony (Sb)	10	ND	60	mg/kg	Pass
Arsenic (As)	5	ND	25	mg/kg	Pass
Barium (Ba)	10	ND	1000	mg/kg	Pass
Cadmium (Cd)	5	ND	75	mg/kg	Pass
Chromium (Cr)	5	ND	60	mg/kg	Pass
Lead (Pb)	5	ND	90	mg/kg	Pass
Mercury (Hg)	5	ND	60	mg/kg	Pass
Selenium (Se)	5	ND	500	mg/kg	Pass

### 3.2.2.3.3 M003

Element	MDL	Result	Limit	Unit	Verdict
Antimony (Sb)	10	ND	60	mg/kg	Pass
Arsenic (As)	5	ND	25	mg/kg	Pass
Barium (Ba)	10	ND	1000	mg/kg	Pass
Cadmium (Cd)	5	ND	75	mg/kg	Pass
Chromium (Cr)	5	ND	60	mg/kg	Pass
Lead (Pb)	5	ND	90	mg/kg	Pass
Mercury (Hg)	5	ND	60	mg/kg	Pass
Selenium (Se)	5	ND	500	mg/kg	Pass

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## 3.2.2.3.4 M004

Element	MDL	Result	Limit	Unit	Verdict
Antimony (Sb)	10	ND	60	mg/kg	Pass
Arsenic (As)	5	ND	25	mg/kg	Pass
Barium (Ba)	10	ND	1000	mg/kg	Pass
Cadmium (Cd)	5	ND	75	mg/kg	Pass
Chromium (Cr)	5	ND	60	mg/kg	Pass
Lead (Pb)	5	ND	90	mg/kg	Pass
Mercury (Hg)	5	ND	60	mg/kg	Pass
Selenium (Se)	5	ND	500	mg/kg	Pass

## 3.2.2.3.5 M005

Element	MDL	Result	Limit	Unit	Verdict
Antimony (Sb)	10	ND	60	mg/kg	Pass
Arsenic (As)	5	ND	25	mg/kg	Pass
Barium (Ba)	10	ND	1000	mg/kg	Pass
Cadmium (Cd)	5	ND	75	mg/kg	Pass
Chromium (Cr)	5	ND	60	mg/kg	Pass
Lead (Pb)	5	ND	90	mg/kg	Pass
Mercury (Hg)	5	ND	60	mg/kg	Pass
Selenium (Se)	5	ND	500	mg/kg	Pass

## 3.2.2.3.6 M006

Element	MDL	Result	Limit	Unit	Verdict
Antimony (Sb)	10	ND	60	mg/kg	Pass
Arsenic (As)	5	ND	25	mg/kg	Pass
Barium (Ba)	10	ND	1000	mg/kg	Pass
Cadmium (Cd)	5	ND	75	mg/kg	Pass
Chromium (Cr)	5	ND	60	mg/kg	Pass
Lead (Pb)	5	ND	90	mg/kg	Pass
Mercury (Hg)	5	ND	60	mg/kg	Pass
Selenium (Se)	5	ND	500	mg/kg	Pass

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## 3.2.2.3.7 M007

Element	MDL	Result	Limit	Unit	Verdict
Antimony (Sb)	10	ND	60	mg/kg	Pass
Arsenic (As)	5	ND	25	mg/kg	Pass
Barium (Ba)	10	ND	1000	mg/kg	Pass
Cadmium (Cd)	5	ND	75	mg/kg	Pass
Chromium (Cr)	5	ND	60	mg/kg	Pass
Lead (Pb)	5	ND	90	mg/kg	Pass
Mercury (Hg)	5	ND	60	mg/kg	Pass
Selenium (Se)	5	ND	500	mg/kg	Pass

## 3.2.2.3.8 M008

Element	MDL	Result	Limit	Unit	Verdict
Antimony (Sb)	10	ND	60	mg/kg	Pass
Arsenic (As)	5	ND	25	mg/kg	Pass
Barium (Ba)	10	ND	1000	mg/kg	Pass
Cadmium (Cd)	5	ND	75	mg/kg	Pass
Chromium (Cr)	5	ND	60	mg/kg	Pass
Lead (Pb)	5	ND	90	mg/kg	Pass
Mercury (Hg)	5	ND	60	mg/kg	Pass
Selenium (Se)	5	ND	500	mg/kg	Pass

## 3.2.2.3.9 M009

Element	MDL	Result	Limit	Unit	Verdict
Antimony (Sb)	10	ND	60	mg/kg	Pass
Arsenic (As)	5	ND	25	mg/kg	Pass
Barium (Ba)	10	ND	1000	mg/kg	Pass
Cadmium (Cd)	5	ND	75	mg/kg	Pass
Chromium (Cr)	5	ND	60	mg/kg	Pass
Lead (Pb)	5	ND	90	mg/kg	Pass
Mercury (Hg)	5	ND	60	mg/kg	Pass
Selenium (Se)	5	ND	500	mg/kg	Pass

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## 3.2.2.3.10 M010

Element	MDL	Result	Limit	Unit	Verdict
Antimony (Sb)	10	ND	60	mg/kg	Pass
Arsenic (As)	5	ND	25	mg/kg	Pass
Barium (Ba)	10	ND	1000	mg/kg	Pass
Cadmium (Cd)	5	ND	75	mg/kg	Pass
Chromium (Cr)	5	ND	60	mg/kg	Pass
Lead (Pb)	5	ND	90	mg/kg	Pass
Mercury (Hg)	5	ND	60	mg/kg	Pass
Selenium (Se)	5	ND	500	mg/kg	Pass

## 3.2.2.3.11 M011

Element	MDL	Result	Limit	Unit	Verdict
Antimony (Sb)	10	ND	60	mg/kg	Pass
Arsenic (As)	5	ND	25	mg/kg	Pass
Barium (Ba)	10	ND	1000	mg/kg	Pass
Cadmium (Cd)	5	ND	75	mg/kg	Pass
Chromium (Cr)	5	ND	60	mg/kg	Pass
Lead (Pb)	5	ND	90	mg/kg	Pass
Mercury (Hg)	5	ND	60	mg/kg	Pass
Selenium (Se)	5	ND	500	mg/kg	Pass

## 3.2.2.3.12 M012

Element	MDL	Result	Limit	Unit	Verdict
Antimony (Sb)	10	ND	60	mg/kg	Pass
Arsenic (As)	5	ND	25	mg/kg	Pass
Barium (Ba)	10	ND	1000	mg/kg	Pass
Cadmium (Cd)	5	ND	75	mg/kg	Pass
Chromium (Cr)	5	ND	60	mg/kg	Pass
Lead (Pb)	5	ND	90	mg/kg	Pass
Mercury (Hg)	5	ND	60	mg/kg	Pass
Selenium (Se)	5	ND	500	mg/kg	Pass

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## 3.2.2.3.13 M013

Element	MDL	Result	Limit	Unit	Verdict
Antimony (Sb)	10	ND	60	mg/kg	Pass
Arsenic (As)	5	ND	25	mg/kg	Pass
Barium (Ba)	10	ND	1000	mg/kg	Pass
Cadmium (Cd)	5	ND	75	mg/kg	Pass
Chromium (Cr)	5	ND	60	mg/kg	Pass
Lead (Pb)	5	ND	90	mg/kg	Pass
Mercury (Hg)	5	ND	60	mg/kg	Pass
Selenium (Se)	5	ND	500	mg/kg	Pass

## 3.2.2.3.14 M014

Element	MDL	Result	Limit	Unit	Verdict
Antimony (Sb)	10	ND	60	mg/kg	Pass
Arsenic (As)	5	ND	25	mg/kg	Pass
Barium (Ba)	10	ND	1000	mg/kg	Pass
Cadmium (Cd)	5	ND	75	mg/kg	Pass
Chromium (Cr)	5	ND	60	mg/kg	Pass
Lead (Pb)	5	ND	90	mg/kg	Pass
Mercury (Hg)	5	ND	60	mg/kg	Pass
Selenium (Se)	5	ND	500	mg/kg	Pass

## 3.2.2.3.15 M015

Element	MDL	Result	Limit	Unit	Verdict
Antimony (Sb)	10	ND	60	mg/kg	Pass
Arsenic (As)	5	ND	25	mg/kg	Pass
Barium (Ba)	10	ND	1000	mg/kg	Pass
Cadmium (Cd)	5	ND	75	mg/kg	Pass
Chromium (Cr)	5	ND	60	mg/kg	Pass
Lead (Pb)	5	ND	90	mg/kg	Pass
Mercury (Hg)	5	ND	60	mg/kg	Pass
Selenium (Se)	5	ND	500	mg/kg	Pass

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## 3.2.2.3.16 M016

Element	MDL	Result	Limit	Unit	Verdict
Antimony (Sb)	10	ND	60	mg/kg	Pass
Arsenic (As)	5	ND	25	mg/kg	Pass
Barium (Ba)	10	ND	1000	mg/kg	Pass
Cadmium (Cd)	5	ND	75	mg/kg	Pass
Chromium (Cr)	5	ND	60	mg/kg	Pass
Lead (Pb)	5	ND	90	mg/kg	Pass
Mercury (Hg)	5	ND	60	mg/kg	Pass
Selenium (Se)	5	ND	500	mg/kg	Pass

## 3.2.2.3.17 M017

Element	MDL	Result	Limit	Unit	Verdict
Antimony (Sb)	10	ND	60	mg/kg	Pass
Arsenic (As)	5	ND	25	mg/kg	Pass
Barium (Ba)	10	ND	1000	mg/kg	Pass
Cadmium (Cd)	5	ND	75	mg/kg	Pass
Chromium (Cr)	5	ND	60	mg/kg	Pass
Lead (Pb)	5	ND	90	mg/kg	Pass
Mercury (Hg)	5	ND	60	mg/kg	Pass
Selenium (Se)	5	ND	500	mg/kg	Pass

## 3.2.2.3.18 M018

Element	MDL	Result	Limit	Unit	Verdict
Antimony (Sb)	10	ND	60	mg/kg	Pass
Arsenic (As)	5	ND	25	mg/kg	Pass
Barium (Ba)	10	ND	1000	mg/kg	Pass
Cadmium (Cd)	5	ND	75	mg/kg	Pass
Chromium (Cr)	5	ND	60	mg/kg	Pass
Lead (Pb)	5	ND	90	mg/kg	Pass
Mercury (Hg)	5	ND	60	mg/kg	Pass
Selenium (Se)	5	ND	500	mg/kg	Pass

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## 3.2.2.3.19 M019

Element	MDL	Result	Limit	Unit	Verdict
Antimony (Sb)	10	ND	60	mg/kg	Pass
Arsenic (As)	5	ND	25	mg/kg	Pass
Barium (Ba)	10	ND	1000	mg/kg	Pass
Cadmium (Cd)	5	ND	75	mg/kg	Pass
Chromium (Cr)	5	ND	60	mg/kg	Pass
Lead (Pb)	5	ND	90	mg/kg	Pass
Mercury (Hg)	5	ND	60	mg/kg	Pass
Selenium (Se)	5	ND	500	mg/kg	Pass

## 3.2.2.3.20 M020

Element	MDL	Result	Limit	Unit	Verdict
Antimony (Sb)	10	ND	60	mg/kg	Pass
Arsenic (As)	5	ND	25	mg/kg	Pass
Barium (Ba)	10	ND	1000	mg/kg	Pass
Cadmium (Cd)	5	ND	75	mg/kg	Pass
Chromium (Cr)	5	ND	60	mg/kg	Pass
Lead (Pb)	5	ND	90	mg/kg	Pass
Mercury (Hg)	5	ND	60	mg/kg	Pass
Selenium (Se)	5	ND	500	mg/kg	Pass

## 3.2.2.3.21 M021

Element	MDL	Result	Limit	Unit	Verdict
Antimony (Sb)	10	ND	60	mg/kg	Pass
Arsenic (As)	5	ND	25	mg/kg	Pass
Barium (Ba)	10	ND	1000	mg/kg	Pass
Cadmium (Cd)	5	ND	75	mg/kg	Pass
Chromium (Cr)	5	ND	60	mg/kg	Pass
Lead (Pb)	5	ND	90	mg/kg	Pass
Mercury (Hg)	5	ND	60	mg/kg	Pass
Selenium (Se)	5	ND	500	mg/kg	Pass

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**Remarks:**

- 1) 1mg/kg = 0.0001%
- 2) MDL=Method Detection Limit
- 3) ND= Not Detected(<MDL)
- 4) "--"=No Testing or Blank or Not applicable.

**4、CPSIA**

**4.1 Test Part Description**

No.	Description	Material
M001	Pink plastic	Polymer
M002	Flesh-colored plastic	Polymer
M003	White coating	Coating
M004	Black coating	Coating
M005	Blue coating	Coating
M006	Blonde hair	Polymer
M007	Brown hair	Polymer
M008	Orange fabric	Textile
M009	White fabric	Textile
M010	Yellow fabric	Textile
M011	Blue fabric	Textile
M012	Purple fabric	Textile
M013	Green fabric	Textile
M014	Red fabric	Textile
M015	Pink coating	Coating
M016	Blue plastic (lifebuoy)	Polymer
M017	Transparent plastic (lifebuoy)	Polymer
M018	White sticky paper	Polymer
M019	Pink plastic (lifebuoy)	Polymer
M020	Velcro (hook surface)	Polymer
M021	Velcro (fleece surface)	Polymer

**Note:**This table is used to identify each test part of the Sample. Different descriptions in the "Description" column are only used to distinguish each test part. "Material" column are only gives a simple Description of the material of each test part, which does not mean that this is the result of a material identification.



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## 4.2 Total lead Content in Surface coating Test

### 4.2.1 M003

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1003-09.1:2011	10	ND	90	mg/kg	Pass

### 4.2.2 M004

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1003-09.1:2011	10	ND	90	mg/kg	Pass

### 4.2.3 M005

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1003-09.1:2011	10	ND	90	mg/kg	Pass

### 4.2.4 M015

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1003-09.1:2011	10	ND	90	mg/kg	Pass

## 4.3 Total lead Content in Substrate Test

### 4.3.1 M001

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

### 4.3.2 M002

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

### 4.3.3 M006

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

### 4.3.4 M007

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1001-08.3:2012	10	ND	100	mg/kg	Pass

### 4.3.5 M008

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

### 4.3.6 M009

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

### 4.3.7 M010

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

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## 4.3.8 M011

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

## 4.3.9 M012

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

## 4.3.10 M013

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

## 4.3.11 M014

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

## 4.3.12 M016

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

## 4.3.13 M017

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

## 4.3.14 M018

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

## 4.3.15 M019

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

## 4.3.16 M020

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

## 4.3.17 M021

Test Item(s)	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
Lead (Pb)	--	CPSC-CH-E1002-08.3:2012	10	ND	100	mg/kg	Pass

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## 4.4 Phthalates Content Test

### 4.4.1 M001

Test item	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
DBP	84-74-2	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
BBP	85-68-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DEHP	117-81-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DCHP	84-61-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DHEXP	84-75-3	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DIBP	84-69-5	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DPENP	131-18-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DINP	28553-12-0 68515-48-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DNOP	117-84-0	EN 14372:2004	50	ND	1000	mg/kg	Pass
DIDP	26761-40-0	EN 14372:2004	50	ND	1000	mg/kg	Pass

### 4.4.2 M002

Test item	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
DBP	84-74-2	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
BBP	85-68-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DEHP	117-81-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DCHP	84-61-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DHEXP	84-75-3	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DIBP	84-69-5	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DPENP	131-18-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DINP	28553-12-0 68515-48-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DNOP	117-84-0	EN 14372:2004	50	ND	1000	mg/kg	Pass
DIDP	26761-40-0	EN 14372:2004	50	ND	1000	mg/kg	Pass

### 4.4.3 M003

Test item	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
DBP	84-74-2	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
BBP	85-68-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DEHP	117-81-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DCHP	84-61-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DHEXP	84-75-3	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DIBP	84-69-5	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DPENP	131-18-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DINP	28553-12-0 68515-48-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DNOP	117-84-0	EN 14372:2004	50	ND	1000	mg/kg	Pass
DIDP	26761-40-0	EN 14372:2004	50	ND	1000	mg/kg	Pass

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## 4.4.4 M004

Test item	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
DBP	84-74-2	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
BBP	85-68-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DEHP	117-81-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DCHP	84-61-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DHEXP	84-75-3	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DIBP	84-69-5	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DPENP	131-18-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DINP	28553-12-0 68515-48-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DNOP	117-84-0	EN 14372:2004	50	ND	1000	mg/kg	Pass
DIDP	26761-40-0	EN 14372:2004	50	ND	1000	mg/kg	Pass

## 4.4.5 M005

Test item	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
DBP	84-74-2	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
BBP	85-68-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DEHP	117-81-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DCHP	84-61-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DHEXP	84-75-3	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DIBP	84-69-5	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DPENP	131-18-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DINP	28553-12-0 68515-48-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DNOP	117-84-0	EN 14372:2004	50	ND	1000	mg/kg	Pass
DIDP	26761-40-0	EN 14372:2004	50	ND	1000	mg/kg	Pass

## 4.4.6 M006

Test item	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
DBP	84-74-2	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
BBP	85-68-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DEHP	117-81-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DCHP	84-61-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DHEXP	84-75-3	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DIBP	84-69-5	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DPENP	131-18-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DINP	28553-12-0 68515-48-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DNOP	117-84-0	EN 14372:2004	50	ND	1000	mg/kg	Pass
DIDP	26761-40-0	EN 14372:2004	50	ND	1000	mg/kg	Pass

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## 4.4.7 M007

Test item	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
DBP	84-74-2	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
BBP	85-68-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DEHP	117-81-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DCHP	84-61-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DHEXP	84-75-3	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DIBP	84-69-5	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DPENP	131-18-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DINP	28553-12-0 68515-48-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DNOP	117-84-0	EN 14372:2004	50	ND	1000	mg/kg	Pass
DIDP	26761-40-0	EN 14372:2004	50	ND	1000	mg/kg	Pass

## 4.4.8 M008

Test item	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
DBP	84-74-2	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
BBP	85-68-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DEHP	117-81-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DCHP	84-61-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DHEXP	84-75-3	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DIBP	84-69-5	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DPENP	131-18-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DINP	28553-12-0 68515-48-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DNOP	117-84-0	EN 14372:2004	50	ND	1000	mg/kg	Pass
DIDP	26761-40-0	EN 14372:2004	50	ND	1000	mg/kg	Pass

## 4.4.9 M009

Test item	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
DBP	84-74-2	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
BBP	85-68-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DEHP	117-81-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DCHP	84-61-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DHEXP	84-75-3	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DIBP	84-69-5	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DPENP	131-18-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DINP	28553-12-0 68515-48-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DNOP	117-84-0	EN 14372:2004	50	ND	1000	mg/kg	Pass
DIDP	26761-40-0	EN 14372:2004	50	ND	1000	mg/kg	Pass

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深圳市优耐检测技术有限公司  
Shenzhen United Testing Technology Co., Ltd.

SZ: 2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang Community, Xixiang Str, Bao'an District, Shenzhen, China.  
深圳市宝安区西乡街道铁岗社区宝田一路365号嘉皇源科技园附楼2楼(P.C.518102) Tel:+86-755-86180996 Fax:+86-755-86180156  
GZ: #47-3, Industrial Road, Zhushan Village, Dalong Street, Panyu District, Guangzhou, China.  
广州市番禺区大龙街竹山村工业路 47-3 (P.C. 511450) Tel:+86-20-39277769 Fax:+86-755-86180156

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## 4.4.10 M010

Test item	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
DBP	84-74-2	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
BBP	85-68-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DEHP	117-81-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DCHP	84-61-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DHEXP	84-75-3	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DIBP	84-69-5	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DPENP	131-18-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DINP	28553-12-0 68515-48-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DNOP	117-84-0	EN 14372:2004	50	ND	1000	mg/kg	Pass
DIDP	26761-40-0	EN 14372:2004	50	ND	1000	mg/kg	Pass

## 4.4.11 M011

Test item	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
DBP	84-74-2	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
BBP	85-68-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DEHP	117-81-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DCHP	84-61-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DHEXP	84-75-3	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DIBP	84-69-5	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DPENP	131-18-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DINP	28553-12-0 68515-48-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DNOP	117-84-0	EN 14372:2004	50	ND	1000	mg/kg	Pass
DIDP	26761-40-0	EN 14372:2004	50	ND	1000	mg/kg	Pass

## 4.4.12 M012

Test item	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
DBP	84-74-2	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
BBP	85-68-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DEHP	117-81-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DCHP	84-61-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DHEXP	84-75-3	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DIBP	84-69-5	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DPENP	131-18-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DINP	28553-12-0 68515-48-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DNOP	117-84-0	EN 14372:2004	50	ND	1000	mg/kg	Pass
DIDP	26761-40-0	EN 14372:2004	50	ND	1000	mg/kg	Pass

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## 4.4.13 M013

Test item	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
DBP	84-74-2	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
BBP	85-68-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DEHP	117-81-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DCHP	84-61-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DHEXP	84-75-3	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DIBP	84-69-5	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DPENP	131-18-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DINP	28553-12-0 68515-48-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DNOP	117-84-0	EN 14372:2004	50	ND	1000	mg/kg	Pass
DIDP	26761-40-0	EN 14372:2004	50	ND	1000	mg/kg	Pass

## 4.4.14 M014

Test item	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
DBP	84-74-2	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
BBP	85-68-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DEHP	117-81-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DCHP	84-61-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DHEXP	84-75-3	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DIBP	84-69-5	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DPENP	131-18-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DINP	28553-12-0 68515-48-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DNOP	117-84-0	EN 14372:2004	50	ND	1000	mg/kg	Pass
DIDP	26761-40-0	EN 14372:2004	50	ND	1000	mg/kg	Pass

## 4.4.15 M015

Test item	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
DBP	84-74-2	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
BBP	85-68-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DEHP	117-81-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DCHP	84-61-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DHEXP	84-75-3	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DIBP	84-69-5	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DPENP	131-18-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DINP	28553-12-0 68515-48-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DNOP	117-84-0	EN 14372:2004	50	ND	1000	mg/kg	Pass
DIDP	26761-40-0	EN 14372:2004	50	ND	1000	mg/kg	Pass

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## 4.4.16 M016

Test item	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
DBP	84-74-2	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
BBP	85-68-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DEHP	117-81-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DCHP	84-61-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DHEXP	84-75-3	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DIBP	84-69-5	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DPENP	131-18-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DINP	28553-12-0 68515-48-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DNOP	117-84-0	EN 14372:2004	50	ND	1000	mg/kg	Pass
DIDP	26761-40-0	EN 14372:2004	50	ND	1000	mg/kg	Pass

## 4.4.17 M017

Test item	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
DBP	84-74-2	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
BBP	85-68-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DEHP	117-81-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DCHP	84-61-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DHEXP	84-75-3	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DIBP	84-69-5	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DPENP	131-18-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DINP	28553-12-0 68515-48-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DNOP	117-84-0	EN 14372:2004	50	ND	1000	mg/kg	Pass
DIDP	26761-40-0	EN 14372:2004	50	ND	1000	mg/kg	Pass

## 4.4.18 M018

Test item	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
DBP	84-74-2	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
BBP	85-68-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DEHP	117-81-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DCHP	84-61-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DHEXP	84-75-3	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DIBP	84-69-5	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DPENP	131-18-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DINP	28553-12-0 68515-48-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DNOP	117-84-0	EN 14372:2004	50	ND	1000	mg/kg	Pass
DIDP	26761-40-0	EN 14372:2004	50	ND	1000	mg/kg	Pass

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## 4.4.19 M019

Test item	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
DBP	84-74-2	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
BBP	85-68-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DEHP	117-81-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DCHP	84-61-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DHEXP	84-75-3	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DIBP	84-69-5	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DPENP	131-18-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DINP	28553-12-0 68515-48-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DNOP	117-84-0	EN 14372:2004	50	ND	1000	mg/kg	Pass
DIDP	26761-40-0	EN 14372:2004	50	ND	1000	mg/kg	Pass

## 4.4.20 M020

Test item	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
DBP	84-74-2	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
BBP	85-68-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DEHP	117-81-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DCHP	84-61-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DHEXP	84-75-3	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DIBP	84-69-5	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DPENP	131-18-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DINP	28553-12-0 68515-48-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DNOP	117-84-0	EN 14372:2004	50	ND	1000	mg/kg	Pass
DIDP	26761-40-0	EN 14372:2004	50	ND	1000	mg/kg	Pass

## 4.4.21 M021

Test item	CAS No.	Test Method	MDL	Result	Limit	Unit	Verdict
DBP	84-74-2	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
BBP	85-68-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DEHP	117-81-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DCHP	84-61-7	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DHEXP	84-75-3	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DIBP	84-69-5	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DPENP	131-18-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DINP	28553-12-0 68515-48-0	CPSC-CH-C1001-09.4:2018	50	ND	1000	mg/kg	Pass
DNOP	117-84-0	EN 14372:2004	50	ND	1000	mg/kg	Pass
DIDP	26761-40-0	EN 14372:2004	50	ND	1000	mg/kg	Pass

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**Remarks:**

- 1) 1mg/kg = 0.0001%
- 2) MDL=Method Detection Limit
- 3) ND= Not Detected(<MDL)
- 4) "--"=No Testing or Blank or Not applicable.

**5、 Sample Photo(s)**





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

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深圳市宝安区西乡街道铁岗社区宝田一路365号嘉皇源科技园附楼2楼(P.C.518102) Tel:+86-755-86180996 Fax:+86-755-86180156

GZ: #47-3, Industrial Road, Zhushan Village, Dalong Street, Panyu District, Guangzhou, China.

广州市番禺区大龙街竹山村工业路 47-3 (P.C. 511450) Tel:+86-20-39277769 Fax:+86-755-86180156