



# Test Report

Report No : SHBST15042013003532561YRR-4 Date: Apr. 10, 2015

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**Applicant** : PIMCHOU C/O SOFRADOM.  
**Address** : 99 Bis, Avenue Du Général-Leclerc 75014 Paris France  
**Manufacturer** : ZERY INDUSTRIAL AND TRADE LTD  
**Address** : 2/F No.33, Wushipu Sanli 361009, Xiamen, China

The following sample(s) was /were submitted and identified on behalf of the clients as :

**Sample Name** : SILICONE WATCH  
**Sample Model** : R138, R10, R09, R08, R07, R0505, R1096, R0514, R0744, R41, R02, R0253  
**Sample Received Date** : Apr. 07, 2015  
**Testing Period** : Apr. 07, 2015 To Apr. 10, 2015  
**Test Requested** : Selected test (s) in the selected parts as requested by client.  
**Test Method** : EN 71-1:2011+A3:2014, EN 71-2:2011+A1:2014, EN 71-3:2013  
**Test Result** : Please refer to next page(s).

Signed for and on behalf of

**Andy Zheng/ Technical Director**

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**Dongguan BST Testing Co., Ltd.**

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Dongguan, Guangdong, China. E-mail: christina@bst-lab.com Http://www.bst-lab.com Complaints hotline: 86-755-26747756



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## Test Result:

### 1. Mechanical and Physical Test

As per European standard on safety of toys EN 71-1:2011+A3:2014,

Applicant's specified age group for testing: over 36 months.

Clause	Testing items	Assessment
4	General requirements	--
4.1	Material cleanliness	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	P
4.8	Points and metallic, wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	NA
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA

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Clause	Testing items	Assessment
4.14	Enclosures	NA
4.14.1	Toys which a child can enter	NA
4.14.2	Masks and helmets	NA
4.15	Toys intended to bear the mass of a child	NA
4.15.1	Toys propelled by a child or by other means	NA
4.15.2	Toy bicycles	NA
4.15.3	Rocking horses and similar toys	NA
4.15.4	Toys not propelled by a child	NA
4.15.5	Toy scooters	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.17.1	General	NA
4.17.2	Projectile toys without stored energy	NA
4.17.3	Projectile toys with stored energy	NA
4.17.4	Bows and arrows	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA

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Clause	Testing items	Assessment
4.23	Magnets	--
4.23.1	General	NA
4.23.2	Toys other than magnetic/electrical experimental sets intended for children over 8 years	NA
4.23.3	Magnetic/electrical experimental sets intended for children over 8 years	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
5	Toys intended for children under 36 months	--
5.1	General requirements	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid-filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA

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Clause	Testing items	Assessment
6	Packaging	NA
7	Warnings, markings and instructions for use	--
7.1	General	NA
7.2	Toys not intended for children under 36 months	P
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectiles	NA
7.7.1	Toys with projectiles which are able to discharge an object other than that provided with the toy	NA
7.7.2	Toys capable of discharging a projectile with a kinetic energy greater than 0.08 j	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA
7.10.1	Roller skates, inline skates and skateboards	NA
7.10.2	Ride-on toys without a braking device	NA
7.10.3	Electrically-driven ride-on toys	NA
7.10.4	Instructions for use	NA

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Clause	Testing items	Assessment
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibers	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic/electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36months	NA
Remark :	1. P=Pass, 2. NA= Not Applicable, 3. F=Fail	

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## 2. Flammability Test

As per European standard on safety of toys EN 71-2:2011+A1:2014

Clause	Testing Items	Assessment
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended To be worn by a child in play	NA
4.4	Toys intend to be entered by a child	NA
4.5	Soft filler toys(animal and dolls etc.) With a piled or textile surface	NA
Remark :	1. P = Pass; 2. NA = Not applicable.	

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### 3.Migration Of Certain Elements

**Test Method:** As per European standard on safety of toys EN71-3:2013.

#### Sample Description:

No.	Description	Name
1	Rubber	Pink Rubber
2	Rubber	Blue Rubber
3	Plastic	Transparent Plastic
4	Plastic	Blue Plastic
5	Plastic	Pink Plastic
6	Paint	Blue Paint
7	Paint	Pink Paint

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## The Result (No.1):

### Migration test

Test Item(s)	Unit	Result	MDL	Limit
Soluble Aluminium (Al)	mg/kg	N.D.	50	70000
Soluble Antimony(Sb)	mg/kg	N.D.	1.0	560
Soluble Arsenic(As)	mg/kg	N.D.	0.5	47
Soluble Barium(Ba)	mg/kg	N.D.	50	56000
Soluble Boron(B)	mg/kg	N.D.	50	15000
Soluble Cadmium(Cd)	mg/kg	N.D.	0.3	17
Soluble Chromium(III)(Cr III)	mg/kg	N.D.	5	460
Soluble Chromium(VI) (Cr VI)	mg/kg	N.D.	0.005	0.2
Soluble Cobalt(Co)	mg/kg	N.D.	0.5	130
Soluble Copper(Cu)	mg/kg	N.D.	50	7700
Soluble Lead(Pb)	mg/kg	N.D.	0.5	160
Soluble Manganese(Mn)	mg/kg	N.D.	50	15000
Soluble Mercury(Hg)	mg/kg	N.D.	0.5	94
Soluble Nickel(Ni)	mg/kg	N.D.	10	930
Soluble Selenium(Se)	mg/kg	N.D.	0.08	460
Soluble Strontium(Sr)	mg/kg	N.D.	5.0	56000
Soluble Tin(Sn)	mg/kg	N.D.	50	180000
Organic tin	mg/kg	N.D.	0.5	12
Soluble Zinc(Zn)	mg/kg	N.D.	0.08	46000

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## Organic tin test

Test Item(s)	Unit	Result	MDL	Limit
Methyl tin	mg/kg	N.D.	0.5	12
Butyl tin	mg/kg	N.D.	0.5	
Dibutyl tin	mg/kg	N.D.	0.5	
Tributyl tin	mg/kg	N.D.	0.5	
Tetrabutyl tin	mg/kg	N.D.	0.5	
n-Octyl tin	mg/kg	N.D.	0.5	
Di-n-octyl tin	mg/kg	N.D.	0.5	
Diphenyl tin	mg/kg	N.D.	0.5	
Triphenyl tin	mg/kg	N.D.	0.5	
Di-n-propyl tin	mg/kg	N.D.	0.5	

### Note:

1. mg/kg= ppm;
2. N.D. =Not Detected (<MDL);
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## The Result (No.2):

### Migration test

Test Item(s)	Unit	Result	MDL	Limit
Soluble Aluminium (Al)	mg/kg	N.D.	50	70000
Soluble Antimony(Sb)	mg/kg	N.D.	1.0	560
Soluble Arsenic(As)	mg/kg	N.D.	0.5	47
Soluble Barium(Ba)	mg/kg	N.D.	50	56000
Soluble Boron(B)	mg/kg	N.D.	50	15000
Soluble Cadmium(Cd)	mg/kg	N.D.	0.3	17
Soluble Chromium(III)(Cr III)	mg/kg	N.D.	5	460
Soluble Chromium(VI) (Cr VI)	mg/kg	N.D.	0.005	0.2
Soluble Cobalt(Co)	mg/kg	N.D.	0.5	130
Soluble Copper(Cu)	mg/kg	N.D.	50	7700
Soluble Lead(Pb)	mg/kg	N.D.	0.5	160
Soluble Manganese(Mn)	mg/kg	N.D.	50	15000
Soluble Mercury(Hg)	mg/kg	N.D.	0.5	94
Soluble Nickel(Ni)	mg/kg	N.D.	10	930
Soluble Selenium(Se)	mg/kg	N.D.	0.08	460
Soluble Strontium(Sr)	mg/kg	N.D.	5.0	56000
Soluble Tin(Sn)	mg/kg	N.D.	50	180000
Organic tin	mg/kg	N.D.	0.5	12
Soluble Zinc(Zn)	mg/kg	N.D.	0.08	46000

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## Organic tin test

Test Item(s)	Unit	Result	MDL	Limit
Methyl tin	mg/kg	N.D.	0.5	12
Butyl tin	mg/kg	N.D.	0.5	
Dibutyl tin	mg/kg	N.D.	0.5	
Tributyl tin	mg/kg	N.D.	0.5	
Tetrabutyl tin	mg/kg	N.D.	0.5	
n-Octyl tin	mg/kg	N.D.	0.5	
Di-n-octyl tin	mg/kg	N.D.	0.5	
Diphenyl tin	mg/kg	N.D.	0.5	
Triphenyl tin	mg/kg	N.D.	0.5	
Di-n-propyl tin	mg/kg	N.D.	0.5	

### Note:

1. mg/kg= ppm;
2. N.D. =Not Detected (<MDL);
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## The Result (No.3):

### Migration test

Test Item(s)	Unit	Result	MDL	Limit
Soluble Aluminium (Al)	mg/kg	N.D.	50	70000
Soluble Antimony(Sb)	mg/kg	N.D.	1.0	560
Soluble Arsenic(As)	mg/kg	N.D.	0.5	47
Soluble Barium(Ba)	mg/kg	N.D.	50	56000
Soluble Boron(B)	mg/kg	N.D.	50	15000
Soluble Cadmium(Cd)	mg/kg	N.D.	0.3	17
Soluble Chromium(III)(Cr III)	mg/kg	N.D.	5	460
Soluble Chromium(VI) (Cr VI)	mg/kg	N.D.	0.005	0.2
Soluble Cobalt(Co)	mg/kg	N.D.	0.5	130
Soluble Copper(Cu)	mg/kg	N.D.	50	7700
Soluble Lead(Pb)	mg/kg	N.D.	0.5	160
Soluble Manganese(Mn)	mg/kg	N.D.	50	15000
Soluble Mercury(Hg)	mg/kg	N.D.	0.5	94
Soluble Nickel(Ni)	mg/kg	N.D.	10	930
Soluble Selenium(Se)	mg/kg	N.D.	0.08	460
Soluble Strontium(Sr)	mg/kg	N.D.	5.0	56000
Soluble Tin(Sn)	mg/kg	N.D.	50	180000
Organic tin	mg/kg	N.D.	0.5	12
Soluble Zinc(Zn)	mg/kg	N.D.	0.08	46000

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## Organic tin test

Test Item(s)	Unit	Result	MDL	Limit
Methyl tin	mg/kg	N.D.	0.5	12
Butyl tin	mg/kg	N.D.	0.5	
Dibutyl tin	mg/kg	N.D.	0.5	
Tributyl tin	mg/kg	N.D.	0.5	
Tetrabutyl tin	mg/kg	N.D.	0.5	
n-Octyl tin	mg/kg	N.D.	0.5	
Di-n-octyl tin	mg/kg	N.D.	0.5	
Diphenyl tin	mg/kg	N.D.	0.5	
Triphenyl tin	mg/kg	N.D.	0.5	
Di-n-propyl tin	mg/kg	N.D.	0.5	

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## The Result (No.4):

### Migration test

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Soluble Aluminium (Al)	mg/kg	N.D.	50	70000
Soluble Antimony(Sb)	mg/kg	N.D.	1.0	560
Soluble Arsenic(As)	mg/kg	N.D.	0.5	47
Soluble Barium(Ba)	mg/kg	N.D.	50	56000
Soluble Boron(B)	mg/kg	N.D.	50	15000
Soluble Cadmium(Cd)	mg/kg	N.D.	0.3	17
Soluble Chromium(III)(Cr III)	mg/kg	N.D.	5	460
Soluble Chromium(VI) (Cr VI)	mg/kg	N.D.	0.005	0.2
Soluble Cobalt(Co)	mg/kg	N.D.	0.5	130
Soluble Copper(Cu)	mg/kg	N.D.	50	7700
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Organic tin	mg/kg	N.D.	0.5	12
Soluble Zinc(Zn)	mg/kg	N.D.	0.08	46000

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Butyl tin	mg/kg	N.D.	0.5	
Dibutyl tin	mg/kg	N.D.	0.5	
Tributyl tin	mg/kg	N.D.	0.5	
Tetrabutyl tin	mg/kg	N.D.	0.5	
n-Octyl tin	mg/kg	N.D.	0.5	
Di-n-octyl tin	mg/kg	N.D.	0.5	
Diphenyl tin	mg/kg	N.D.	0.5	
Triphenyl tin	mg/kg	N.D.	0.5	
Di-n-propyl tin	mg/kg	N.D.	0.5	

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Dongguan, Guangdong, China. E-mail: christina@bst-lab.com Http://www.bst-lab.com Complaints hotline: 86-755-26747756



# Test Report

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## The Result (No.5):

### Migration test

Test Item(s)	Unit	Result	MDL	Limit
Soluble Aluminium (Al)	mg/kg	N.D.	50	70000
Soluble Antimony(Sb)	mg/kg	N.D.	1.0	560
Soluble Arsenic(As)	mg/kg	N.D.	0.5	47
Soluble Barium(Ba)	mg/kg	N.D.	50	56000
Soluble Boron(B)	mg/kg	N.D.	50	15000
Soluble Cadmium(Cd)	mg/kg	N.D.	0.3	17
Soluble Chromium(III)(Cr III)	mg/kg	N.D.	5	460
Soluble Chromium(VI) (Cr VI)	mg/kg	N.D.	0.005	0.2
Soluble Cobalt(Co)	mg/kg	N.D.	0.5	130
Soluble Copper(Cu)	mg/kg	N.D.	50	7700
Soluble Lead(Pb)	mg/kg	N.D.	0.5	160
Soluble Manganese(Mn)	mg/kg	N.D.	50	15000
Soluble Mercury(Hg)	mg/kg	N.D.	0.5	94
Soluble Nickel(Ni)	mg/kg	N.D.	10	930
Soluble Selenium(Se)	mg/kg	N.D.	0.08	460
Soluble Strontium(Sr)	mg/kg	N.D.	5.0	56000
Soluble Tin(Sn)	mg/kg	N.D.	50	180000
Organic tin	mg/kg	N.D.	0.5	12
Soluble Zinc(Zn)	mg/kg	N.D.	0.08	46000

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## Organic tin test

Test Item(s)	Unit	Result	MDL	Limit
Methyl tin	mg/kg	N.D.	0.5	12
Butyl tin	mg/kg	N.D.	0.5	
Dibutyl tin	mg/kg	N.D.	0.5	
Tributyl tin	mg/kg	N.D.	0.5	
Tetrabutyl tin	mg/kg	N.D.	0.5	
n-Octyl tin	mg/kg	N.D.	0.5	
Di-n-octyl tin	mg/kg	N.D.	0.5	
Diphenyl tin	mg/kg	N.D.	0.5	
Triphenyl tin	mg/kg	N.D.	0.5	
Di-n-propyl tin	mg/kg	N.D.	0.5	

### Note:

1. mg/kg= ppm;
2. N.D. =Not Detected (<MDL);
3. MDL =Method Detection Limit.

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## The Result (No.6):

### Migration test

Test Item(s)	Unit	Result	MDL	Limit
Soluble Aluminium (Al)	mg/kg	N.D.	50	70000
Soluble Antimony(Sb)	mg/kg	N.D.	1.0	560
Soluble Arsenic(As)	mg/kg	N.D.	0.5	47
Soluble Barium(Ba)	mg/kg	N.D.	50	56000
Soluble Boron(B)	mg/kg	N.D.	50	15000
Soluble Cadmium(Cd)	mg/kg	N.D.	0.3	17
Soluble Chromium(III)(Cr III)	mg/kg	N.D.	5	460
Soluble Chromium(VI) (Cr VI)	mg/kg	N.D.	0.005	0.2
Soluble Cobalt(Co)	mg/kg	N.D.	0.5	130
Soluble Copper(Cu)	mg/kg	N.D.	50	7700
Soluble Lead(Pb)	mg/kg	N.D.	0.5	160
Soluble Manganese(Mn)	mg/kg	N.D.	50	15000
Soluble Mercury(Hg)	mg/kg	N.D.	0.5	94
Soluble Nickel(Ni)	mg/kg	N.D.	10	930
Soluble Selenium(Se)	mg/kg	N.D.	0.08	460
Soluble Strontium(Sr)	mg/kg	N.D.	5.0	56000
Soluble Tin(Sn)	mg/kg	N.D.	50	180000
Organic tin	mg/kg	N.D.	0.5	12
Soluble Zinc(Zn)	mg/kg	N.D.	0.08	46000

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## Organic tin test

Test Item(s)	Unit	Result	MDL	Limit
Methyl tin	mg/kg	N.D.	0.5	12
Butyl tin	mg/kg	N.D.	0.5	
Dibutyl tin	mg/kg	N.D.	0.5	
Tributyl tin	mg/kg	N.D.	0.5	
Tetrabutyl tin	mg/kg	N.D.	0.5	
n-Octyl tin	mg/kg	N.D.	0.5	
Di-n-octyl tin	mg/kg	N.D.	0.5	
Diphenyl tin	mg/kg	N.D.	0.5	
Triphenyl tin	mg/kg	N.D.	0.5	
Di-n-propyl tin	mg/kg	N.D.	0.5	

### Note:

1. mg/kg= ppm;
2. N.D. =Not Detected (<MDL);
3. MDL =Method Detection Limit.

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## The Result (No.7):

### Migration test

Test Item(s)	Unit	Result	MDL	Limit
Soluble Aluminium (Al)	mg/kg	N.D.	50	70000
Soluble Antimony(Sb)	mg/kg	N.D.	1.0	560
Soluble Arsenic(As)	mg/kg	N.D.	0.5	47
Soluble Barium(Ba)	mg/kg	N.D.	50	56000
Soluble Boron(B)	mg/kg	N.D.	50	15000
Soluble Cadmium(Cd)	mg/kg	N.D.	0.3	17
Soluble Chromium(III)(Cr III)	mg/kg	N.D.	5	460
Soluble Chromium(VI) (Cr VI)	mg/kg	N.D.	0.005	0.2
Soluble Cobalt(Co)	mg/kg	N.D.	0.5	130
Soluble Copper(Cu)	mg/kg	N.D.	50	7700
Soluble Lead(Pb)	mg/kg	N.D.	0.5	160
Soluble Manganese(Mn)	mg/kg	N.D.	50	15000
Soluble Mercury(Hg)	mg/kg	N.D.	0.5	94
Soluble Nickel(Ni)	mg/kg	N.D.	10	930
Soluble Selenium(Se)	mg/kg	N.D.	0.08	460
Soluble Strontium(Sr)	mg/kg	N.D.	5.0	56000
Soluble Tin(Sn)	mg/kg	N.D.	50	180000
Organic tin	mg/kg	N.D.	0.5	12
Soluble Zinc(Zn)	mg/kg	N.D.	0.08	46000

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## Organic tin test

Test Item(s)	Unit	Result	MDL	Limit
Methyl tin	mg/kg	N.D.	0.5	12
Butyl tin	mg/kg	N.D.	0.5	
Dibutyl tin	mg/kg	N.D.	0.5	
Tributyl tin	mg/kg	N.D.	0.5	
Tetrabutyl tin	mg/kg	N.D.	0.5	
n-Octyl tin	mg/kg	N.D.	0.5	
Di-n-octyl tin	mg/kg	N.D.	0.5	
Diphenyl tin	mg/kg	N.D.	0.5	
Triphenyl tin	mg/kg	N.D.	0.5	
Di-n-propyl tin	mg/kg	N.D.	0.5	

### Note:

1. mg/kg= ppm;
2. N.D. =Not Detected (<MDL);
3. MDL =Method Detection Limit.

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## Sample Photo:



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