

# **Test Report**

Report No.: SZT09051109057

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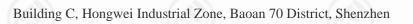
Clause	Description	Assessment
<u>enduse</u> 4.	Safety Requirements	<u>735655110111</u>
4.1	Material Quality (Visual Examination)	Pass
4.3	Toxicology	
4.3.5	Paint & Similar Surface-coating Material	Pass
		(See Note 1)
4.6	Small Objects	N/A
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
7.	Producers Markings	
7.1	Producers Markings	Pass
8.	Test Method	
8.5	Normal Use Testing	Pass
8.7	Impact Test	Pass
8.8	Torque Test	Pass
8.9	Tension Test	Pass

### Note 1 :

## ASTM F963-08 CLAUSE 4.3.5 - PAINT & SIMILAR SURFACE-COATING MATERIAL Heavy Metals Analysis : Total Lead (Clause 4.3.5.1)

Acid Digestion Method was Used and Total Lead Content was Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Element	Resu	<u>llt(mg/kg)</u>	<u>Limit</u>
	(1)	(2)	(mg/kg)
Fotal Lead	< 5	< 5	600





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Tested Components:

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- (1) Mauve coating
- (2) Purple coating

Heavy Metals Analysis : Soluble Heavy Metal (Clause 4.3.5.2)

Acid Extraction Method was Used in accord with ASTM F963-08 (Clause 8.3) and Toxic Elements Content were Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

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Elements	Resul	<u>Limit</u>	
	(1)	(2)	(mg/kg)
Soluble Antimony (Sb)	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	25
Soluble Barium (Ba)	<5	11	1000
Soluble Cadmium (Cd)	<5	<5	75
Soluble Chromium (Cr)	<2.5	<2.5	60
Soluble Lead (Pb)	<5	<5	90
Soluble Mercury (Hg)	<2.5	<2.5	60
Soluble Selenium (Se)	<5	<5	500

**Tested Components:** 

- (1) Mauve coating(sample weight: 14.0mg)
- (2) Purple coating(sample weight: 27.0mg)

### Remark:

- < = Less than
- mg/kg = Milligram per kilogram based on dry weight of sample
- Where the test portion has a mass of between 10mg and 100mg, the quantity of the appropriate elements shall be calculated as if 100mg of the test portion had been used.
- Results shown of soluble elements are of adjusted analytical results by subtracting analytical correction factor
- As per client request, all results are copied from CTI test report SZT09042808279.

#### Note:

Only applicable clauses were shown.

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## 2) <u>US CONSUMER PRODUCTS SAFETY IMPROVEMENT ACT 2008 (CPSIA)</u>

### ▼LEAD IN SURFACE-COATING AND SIMILAR MATERIALS OF CHILDREN'S PRODUCT

As Specified in Consumer Products Safety Improvement Act 2008 (CPSIA) and Title 16 Part 1303 Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A, Acid Digestion Method was Used and Total Lead Content was Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Element	-0-		Limit <sup>#1</sup>		
(		(1)	(2)	(ppm)	$(\mathcal{A})$
Total Lead (Pb)		<5	<5	600	

Tested Components:

- (1) Mauve coating
- (2) Purple coating

#### Remark:

- < = Less than
- ppm= parts per million based on dry weight of sample
  - <sup>#1</sup> = The total Lead limit for surface coatings and similar materials will be **90ppm** (Effective
    - Date : August 14, 2009)
    - As per client request, all results are copied from CTI test report SZT09042808279.

## ▼ LEAD IN SUBSTRATE MATERIALS OF CHILDREN'S PRODUCT

As Specified in Consumer Products Safety Improvement Act 2008 (CPSIA), Acid Digestion Method was Used and Total Lead Content was Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Element	Result (ppm)							Limit <sup>#2</sup>			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(ppm)
Total Lead (Pb)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	600

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#### Tested Components:

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- (1) White fabric(lining, hat)
- (2) White thread
- (3) White net fabric with mauve plastic thread
- (4) White non-woven
- (5) Grey paper
- (6) Grey/white plastic
- (7) Transparent plastic sheet
- (8) White plastic(top, hat)
- (9) Transparent glue(top, hat)
- (10) Purple net fabric with purple plastic thread

#### Remark:

- < = Less than
- ppm= parts per million based on dry weight of sample
- <sup>#2</sup> = The total Lead limit for substrate materials will be **300ppm** (Effective Date : August 14, 2009)
- As per client request, all results are copied from CTI test report SZT09042808279.

## ▼ <u>PHTHALATES IN CHILDREN'S TOY AND CHILD CARE ARTICLES</u>

As Specified in Consumer Products Safety Improvement Act 2008 (CPSIA) ,Solvent extraction Method was Used and phthalates were Determined by Gas Chromatograph with Mass Spectrometer (GC-MS).

Tested Item		Limit#			
	(1)/(2)/(3)	(4)	(5)	(6)	(%)
Di-2-ethylhexyl Phthalate (DEHP)	< 0.003	< 0.003	< 0.003	0.046	0.1
Dibutyl Phthalate (DBP)	< 0.003	< 0.003	< 0.003	< 0.003	0.1
Benzylbutyl Phthalate (BBP)	< 0.003	< 0.003	< 0.003	< 0.003	0.1



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Material(s) in toys that can be placed in	mouth and chi	ldcare articl	es	8)	3)
Tested Item		Limit#			
	(1)/(2)/(3)	(4)	(5)	(6)	(%)
Diisononyl Phthalate (DINP)	< 0.005	< 0.005	< 0.005	< 0.005	0.1
Di-n-octyl Phthalate (DNOP)	< 0.003	< 0.003	< 0.003	< 0.003	0.1
Diisodecyl Phthalate (DIDP)	< 0.005	< 0.005	< 0.005	< 0.005	0.1

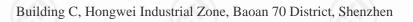
## Tested Components:

- (1) Grey-white plastic
- (2) Transparent plastic sheet
- (3) White plastic(top, hat)
- (4) Transparent glue(top, hat)
- (5) Mauve coating
- (6) Purple coating

#### Remark:

#### < = Less than

- %= Percentage based on dry weight of sample
- As per client request, all results are copied from CTI test report SZT09042808279.





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\*\*\* End of report \*\*\*

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