

# Test Report

Report No.: SHT09011000077

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**Client** : NANTONG GOLDEN PHOENIX TOY MANUFACTURING CO.LTD.  
**Address** : NO. 869 NANYUAN MIDDLE ROAD QIDONG CITY JIANGSU CHINA

**Report on the submitted sample said to be:**

Sample Name : Satin heart boxer shorts  
Item No. : 20076  
Exported to : U.S.A  
Labelled Age Grading : Over three  
Age Group Applied in Testing : Over 3 years  
Sample Received Date : Jan.13, 2009  
Sample Tested Date : Jan.13, 2009 to Jan.16, 2009

**TEST REQUEST**

- 1)ASTM F963-07<sup>e1</sup> Standard Consumer Safety Specification for Toy Safety
- 2)US Consumer Products Safety Improvement Act 2008 (CPSIA)(H.R. 4040)  
- Lead Content Test

**CONCLUSION**

**PASS**

**PASS**

**Test Results:** Please refer to next page(s)

Inspected by: Richard Lau, Approved by: Victor wang, Approved date: 2009-01-20

Engineer

Victor wang  
Lab Manager



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**ASTM F963 -07<sup>e1</sup>**

AS SPECIFIED IN ASTM F963-07<sup>e1</sup> STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY.

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4.	Safety Requirements	
4.1	Material Quality **.....	Pass
4.2	Flammability Test.....	N/A (See Note 1)
4.3	Toxicology	
4.3.5	Paint & Similar Surface-coating Material.....	Pass (See Note 2)
4.6	Small Objects.....	N/A
4.7	Accessible Edges.....	Pass
4.9	Accessible Points.....	Pass
5.	Safety Labeling Requirements	
5.2	Age Grading Labeling.....	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

\*\*Visual Examination

N/A = Not Applicable

Note 1:

Flammability Test (Clause 4.2)

Flammability Test on Textile Materials .....N/A

The samples are exempt from 16CFR 1610.1(d)(1):plain surface fabric with weight>2.6oz/sq.yd.

N/A = Not Applicable

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Note 2 :

**ASTM F963-07<sup>e1</sup> 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	Result(mg/kg)			Limit (mg/kg)
	(1)	(2)	(3)	
Total Lead	< 5	< 5	43	600

Tested Components:

- (1) Black coating(label)
- (2) Red coating
- (3) Pink coating

Heavy Metals Analysis : Soluble Heavy Metal (Clause 4.3.5.2)

Acid Extraction Method was Used in accord with ASTM F963-07<sup>e1</sup> (Clause 8.3) and Toxic Elements Content were Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Elements	Result (mg/kg)		Limit (mg/kg)
	(1)	(2)	
Soluble Antimony (Sb)	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	25
Soluble Barium (Ba)	10	200	1000
Soluble Cadmium (Cd)	<5	<5	75
Soluble Chromium (Cr)	<2.5	<2.5	60
Soluble Lead (Pb)	<5	6	90
Soluble Mercury (Hg)	<2.5	<2.5	60
Soluble Selenium (Se)	<5	<5	500

Tested Components:

- (1) Red coating(Sample weight:53.3mg)
- (2) Pink coating(Sample weight:10.0)

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**Remark:**

- < = Less than
- mg/kg = Milligram per kilogram based on dry weight of sample
- Results shown of soluble elements are of adjusted analytical results by subtracting analytical correction factor
- 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.
- As received, the test portion of black coating(label) is less than 10mg, therefore such components were not tested for soluble elements, as specified in ASTM F963-07<sup>e1</sup> Clause 8.3.3.1 (2)

**Note:**

- Only applicable clauses were shown.

**2) LEAD CONTENT TEST**

As Specified in Consumer Products Safety Improvement Act 2008 (CPSIA)(H.R. 4040) 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).

**1. Lead content in surface coating(s) and similar materials**

Element	Result (ppm)			Required Limit <sup>#1</sup> (ppm)
	(1)	(2)	(3)	
Total Lead	<5	43	<5	600

**2. Lead content in other materials**

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

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## Tested Components:

- (1) Black coating(label)
- (2) Red coating
- (3) Pink coating
- (4) Dk. red thread
- (5) Red fabric
- (6) White elastic belt
- (7) White thread
- (8) White fabric(label)
- (9) White ribbon

## 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)
- <sup>#2</sup> = The total Lead limit for other materials will be **300ppm** (Effective Date : August 14, 2009)

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## Photo of the sample



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

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