

# Test Report

Report No.: SHT09011400108

Page 1 of 7

**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 Description : The Star Sufer  
Item/Lot No. : 20235  
Quantity of Sample : 3 PCS  
Exported to : U.S.A  
Labelled Age Grading : Over three  
Age Group Applied in Testing : Over three years  
Sample Received Date : Jan.14, 2009  
Sample Tested Date : Jan.14, 2009 to Jan.19, 2009

**TEST REQUEST**

- 1) ASTM F963-07<sup>el</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: Jacky Chan, Approved date: 2009-01-21  
General Manager



Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen

# Test Report

Report No.: SHT09011400108

Page 2 of 7

**1) 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.....	Pass (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 Solid

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>	<u>Limit (inch/sec)</u>
The Star Sufer	0.1*	0.1

\*Burning rate has been rounded to the nearest one tenth of an inch per second.

Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen

# Test Report

Report No.: SHT09011400108

Page 3 of 7

## Flammability Test on Textile Materials

Sample	Condition	Burning Time (second)					Classification
		1	2	3	4	5	
Green fabric	As received	DNI	DNI	DNI	DNI	DNI	Class 1
	After washing	DNI	DNI	DNI	DNI	DNI	Class 1

### Classification:

Class 1: Normal Flammability

DNI = Did Not Ignite

### 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).

<u>Element</u>	<u>Result(mg/kg)</u>						<u>Limit</u> (mg/kg)
	(1)	(2)	(3)	(4)	(5)	(6)	
Total Lead	< 5	< 5	< 5	< 5	< 5	< 5	600

### Tested Components:

- (1) Black coating(label)
- (2) Silver coating(skirt, hat)
- (3) Mauve coating with glitter(cloth)
- (4) Green coating with glitter(cloth)
- (5) Dk. blue coating(cloth)
- (6) Lt. blue coating(cloth)

#### 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).

Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen

# Test Report

Report No.: SHT09011400108

Page 4 of 7

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)	<5	<5	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) Silver coating(skirt, hat)(sample weight:42.8mg)
- (2) Green coating with glitter(cloth) (sample weight:18.0mg)

**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), mauve coating with glitter(cloth), dark blue coating(cloth) and lt. blue coating(cloth) are 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.

# Test Report

Report No.: SHT09011400108

Page 5 of 7

## 2) US CONSUMER PRODUCTS SAFETY IMPROVEMENT ACT 2008 (CPSIA)(H.R. 4040)

### ▼ 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

<u>Element</u>	<u>Result (ppm)</u>						<u>Required Limit<sup>#1</sup></u> (ppm)
	(1)	(2)	(3)	(4)	(5)	(6)	
Total Lead	<5	<5	<5	<5	<5	<5	600

#### 2. Lead content in other materials

<u>Element</u>	<u>Result (ppm)</u>								<u>Required Limit<sup>#2</sup></u> (ppm)
	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
Total Lead	<5	<5	<5	<5	32	<5	<5	<5	600

<u>Element</u>	<u>Result (ppm)</u>								<u>Required Limit<sup>#2</sup></u> (ppm)
	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	
Total Lead	<5	<5	<5	<5	<5	<5	<5	<5	600

#### Tested Components:

- (1) Silver coating(skirt, hat)
- (2) Mauve coating with glitter(cloth)
- (3) Green coating with glitter(cloth)
- (4) Dk. blue coating(cloth)
- (5) Lt. blue coating(cloth)
- (6) Black coating(label)
- (7) Dk. green thread(skirt)
- (8) White flock(hat)
- (9) Floweriness plastic sheet(skirt)
- (10) White plastics(velcro, hat)
- (11) Silver metal(buckle, hat)

Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen

# Test Report

Report No.: SHT09011400108

Page 6 of 7

- (12) Silver fabric (cloth)
- (13) Fresh Green ribbon(skirt)
- (14) Fresh Green fabric(skirt)
- (15) Lt. green fabric(skirt, lace)
- (16) Green cord(skirt)
- (17) White fabric(cloth)
- (18) Bright white fabric(hat)
- (19) White thread
- (20) White fabric(label)
- (21) Green thread(skirt)
- (22) White ribbon

Remark:

- $\leq$  Less than
- ppm= parts per million based on dry weight of sample
- #1 = The total Lead limit for surface coatings and similar materials will be **90ppm** (Effective Date : August 14, 2009)
- #2 = The total Lead limit for other materials will be **300ppm** (Effective Date : August 14, 2009)

Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen

## Test Report

Report No.: SHT09011400108

Page 7 of 7

### Photo of the sample



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

This report is considered invalidated without the Special Seal for Inspection of the CTI, This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of CTI, this test report shall not be copied except in full and published as advertisement.

Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen