

Test Report

Report No.: SHT09011000092

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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 Description : Tie & Roses
Item/Lot No. : 20123
Exported to : U.S.A
Labelled Age Grading : Over three
Age Group Applied in Testing : Over three years
Sample Received Date : Jan.13, 2009
Sample Tested Date : Jan.13, 2009 to Jan.19, 2009

TEST REQUEST

- 1) ASTM F963-07^{e1} 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: 2009-01-19
General Manager



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1) **ASTM F963 – 07** ^{e1}

AS SPECIFIED IN ASTM F963-07 ^{e1} 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 |
| 4.10 | Wires or Rods | 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 |
| 8.12 | Flexure 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> |
|---------------|--------------------------------|-------------------------|
| Tie & Roses | 0.1* | 0.1 |

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

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Note 2 :

ASTM F963-07^{e1} 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) | |
| Total Lead | < 5 | < 5 | 600 |

Tested Components:

- (1) Black coating(label)
- (2) Peach coating

Heavy Metals Analysis : Soluble Heavy Metal (Clause 4.3.5.2)

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

| <u>Elements</u> | <u>Result (mg/kg)</u> | <u>Limit</u> (mg/kg) |
|-----------------------|-----------------------|-------------------------|
| | Peach coating | |
| Soluble Antimony (Sb) | <5 | 60 |
| Soluble Arsenic (As) | <2.5 | 25 |
| Soluble Barium (Ba) | <5 | 1000 |
| Soluble Cadmium (Cd) | <5 | 75 |
| Soluble Chromium (Cr) | <2.5 | 60 |
| Soluble Lead (Pb) | <5 | 90 |
| Soluble Mercury (Hg) | <2.5 | 60 |
| Soluble Selenium (Se) | <5 | 500 |

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
- 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^{e1} Clause 8.3.3.1 (2)

Note:

- Only applicable clauses were shown.

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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

| Element | Result (ppm) | | Required Limit ^{#1} (ppm) |
|------------|--------------|-----|---------------------------------------|
| | (1) | (2) | |
| Total Lead | <5 | <5 | 600 |

2. Lead content in other materials

| Element | Result (ppm) | | | | | | | | | | Required Limit ^{#2} (ppm) |
|------------|--------------|-----|-----|-----|-----|-----|-----|------|------|------|---------------------------------------|
| | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | |
| Total Lead | <5 | <5 | <5 | <5 | 26 | <5 | <5 | <5 | <5 | <5 | 600 |

Tested Components:

- | | |
|-----------------------------|--------------------------|
| (1) Peach coating | (7) Black elastic belt |
| (2) Black coating(label) | (8) Red elastic cord |
| (3) Green flock | (9) Peach gauze |
| (4) Black fabric | (10) Black thread |
| (5) Green thread(leafage) | (11) White fabric(label) |
| (6) Lt. green thread(stalk) | (12) Red plush |

Remark:

- < = 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)

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Photo of the sample



*** End of report ***

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