

## Test Report

No.: SZTYR100101618/TS

Date: MAR 02, 2010

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HAPPY ARTS & CRAFTS (NINGBO) CO., LTD  
HAPE INTERNATIONAL (NINGBO) LTD  
9-27 NANHAI ROAD, DAGANG INDUSTRIAL CITY,  
BEILUN, NINGBO, CHINA P.C. 315800

The following samples were submitted and identified by/on behalf of the client as:

Name of Product/Item : RAINBOW LACING SHAPES / FÄDELSPIEL REGENBOGEN  
Details of Sample Received : WOODEN PLAY SET CONTAINS: SOME BLOCKS, 2 CORDS WITH WOODEN BARS ATTACHED. SHRINK FILM WITH INSERTED CARD PACKED.

Sample Quantity : 2 PCS  
Style / Item No. : 861257/861357  
Manufacturer : HAPE INTERNATIONAL (NINGBO) LTD  
Country of Origin : CHINA  
Country of Destination : GLOBAL  
Labeled Age Grading : 3Y +  
Requested Age Grading : 3Y +  
Age Group Applied in Testing : OVER 3 YEARS (AS PER CLIENT'S REQUEST)  
Sample Receiving Date : JAN 20, 2010  
Resubmitted Packaging Date : FEB 25, 2010  
Further Information Date : FEB 02, 2010  
Testing Period : JAN 20, 2010 TO MAR 02, 2010

TEST REQUESTED : For compliance with the test requirement of ASTM F963-08 Standard Consumer Safety Specification on Toy Safety.

RESULTS : Details please refer to next page.

CONCLUSION : The submitted samples comply with the requested test requirements.

Signed for and on behalf of  
SGS-CSTC Ltd.



Zhang Wei, Merry  
Section Manager

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ASTM F963 - 08

AS SPECIFIED IN ASTM F963-08 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY.

Clause	Description	Result
4.	<u>Safety Requirements</u>	
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)
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
4.18	Holes, Clearance & Accessibility of Mechanisms	Pass
5.	<u>Safety Labeling Requirements</u>	
5.2	Age Grading Labeling	Pass
7.	<u>Producer's Markings</u>	
7.1	Producer's Markings	Pass
8.	<u>Test Method</u>	
8.5	Normal Use Testing	Pass
8.7	Impact Test	Pass
8.8	Torque Test	Pass
8.9	Tension Test	Pass

\*\*Visual Examination

**Note 1 :**

Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample	Burning Rate (inch/sec)	Limit (inch/sec)
RAINBOW LACING SHAPES / FÄDELSPIEL REGENBOGEN	DNI	0.1

- DNI = Did Not Ignite

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**Note 2 :**

Paint & Similar Surface-coating Material (Clause 4.3.5)

ASTM F963-08 - Heavy Metals Analysis : Total Lead (Clause 4.3.5.1)

TOTAL LEAD CONTENT - CPSC TEST METHOD: CPSC-CH-E1003-09.

Specimen Description	Total Pb Result (mg/kg)	Limit# (mg/kg)
1. Red coating on wood (Beads)	< 10	90
2. Orange coating on wood (Beads)	< 10	90
3. Yellow coating on wood (Beads)	< 10	90
4. Green coating on wood (Beads)	< 10	90
5. Blue w/ white coating on wood (Beads)	< 10	90

# The total Pb requirement shall comply with the lead content provisions of 16 CFR 1303, issued under the Consumer Product Safety Act (CPSA) , while according to CPSA requirement the 90mg/kg limit requirement effective 14 August, 2009.

- < = Less than
- Results of specimen No.1-No.5 are copied from report No. SZTYR100104592/LP.

ASTM F963-08 - Heavy Metals Analysis : Soluble Heavy Metal (Clause 4.3.5.2)

SOLUBLE HEAVY METALS CONTENTS - SAMPLES WERE EXTRACTED BY DILUTE HYDROCHLORIC ACID IN ACCORDANCE WITH ASTM F963-08 (CLAUSE 8.3). ANALYSIS WAS PERFORMED BY INDUCTIVELY COUPLED PLASMA ATOMIC EMISSION SPECTROMETER.

Element	Pb	Sb	As	Ba	Cd	Cr	Hg	Se
<b>Soluble Limit (mg/kg)</b>	90	60	25	1000	75	60	60	500
Specimen Description	Adjusted Soluble Result (mg/kg)							
1. Red coating on wood (Beads)	<5	<5	<5	48	<5	<5	<5	<10
2. Orange coating on wood (Beads)	<5	<5	<5	74	<5	<5	<5	<10
3. Yellow coating on wood (Beads)	<5	<5	<5	55	<5	<5	<5	<10
4. Green coating on wood (Beads)	<5	<5	<5	43	<5	<5	<5	<10
5. Blue w/ white coating on wood (Beads)	<5	<5	<5	57	<5	<5	<5	<10

- < = Less than
- Results of soluble elements shown are of the adjusted analytical results.
- Results of specimen No.1-No.5 are copied from report No. SZTYR100101619/TS.

N.B. : - Only applicable clauses were shown.

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### Sample Photo:



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**SZTY 24 10924**