

## Test Report

No. 20100723007/HL

Date : Jul 25 2010

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HOPSTECH INDUSTRIES LIMITED  
ROOM 1411, BLK. A,  
HOI LUEN IND. CENTRE,  
55 HOI YUEN ROAD, KWUN TONG,  
KOWLOON, HONG KONG

The following samples were submitted and identified on behalf of the client as  
RACER

Detail of Sample: PLASTIC PLAY SET CONTAINS 37 SNAP PIECES, COMES WITH 4 WHEELS AND  
INSTRUCTION MANUALS. PRINTED BOX PACKED.

Style /Item No.	:	12051
Buyer	:	INFINITOY, INC
Manufacturer	:	HOPSTECH INDUSTRIES LIMITED
Country of Origin	:	CHINA
Country of Destination	:	USA / EUROPE
Labeled Age Grading	:	FOR AGES 6 & UP
Age Group Applied in Testing	:	AGES 6 & UP
Sample Receiving Date	:	JUL 15, 2010
Testing Period	:	JUL 15, 2010 TO JUL 20, 2010

### TESTING REQUESTED :

For compliance with the Physical & Mechanical, Flammability and Lead & Heavy Metal test requirements 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 NANSHAN Laboratory



Lui Tat Wah, Wallace  
Senior Technical Manager  
CNAS Approved Signatories

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**SZNS 002846**

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Results :

ASTM F963 – 08

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

Clause Relevant to Sample.

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.0	<u>Safety Requirements</u>	
4.1	Material Quality **	Pass
4.2	Flammability Test	Pass (See Note 1)
4.3.5	Paint & Similar Surface-coating Material	Pass (See Note 2)
4.7	Accessible Edges	Pass
4.8	Projections	Pass
4.9	Accessible Points	Pass
4.12	Packaging Film	Pass
4.17	Wheels, Tires, and Axles	Pass
5.0	<u>Safety Labelling Requirements</u>	
5.2	Age Grading Labeling	Pass
7.0	<u>Producer's Markings</u>	
7.1	Producer's Markings	Pass
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  
RACER

Burning Rate (inch/sec)  
0.01

Requirement : A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

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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)

Method : CPSC Test Method: CPSC-CH-E1003-09 ‘Standard Operation Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings’

Test Item	Result (mg/kg)	Detection Limit (mg/kg)	Permissible Limit (mg/kg)
	1		
Lead (Pb)	ND	20	90
<b>Comment</b>	PASS	--	--

Composite Sample Description:

1. Multi-Color Coating on Paper (Instruction)

- Note :
1. mg/kg = milligram per kilogram
  2. ND = Not Detected

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Soluble heavy metals in surface coating material (Clause 4.3.5.2)

Method : With reference to ASTM F963-08 Clause 8.3. Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry.

Test Item	Result (mg/kg)		Detection Limit (mg/kg)	Permissible Limit (mg/kg)
	1			
Soluble Lead (Pb)	ND		5	90
Soluble Antimony (Sb)	ND		5	60
Soluble Arsenic (As)	ND		5	25
Soluble Barium (Ba)	ND		10	1000
Soluble Cadmium (Cd)	ND		5	75
Soluble Chromium (Cr)	ND		5	60
Soluble Mercury (Hg)	ND		5	60
Soluble Selenium (Se)	ND		10	500
<b>Comment</b>	PASS		--	--

**Sample Description:**

1. Multi-Color Coating on Paper (Instruction)

Note : 1. mg/kg = milligram per kilogram

2. ND = Not Detected

3. Results of soluble heavy metal contents shown are of the adjusted analytical result.

N.B.: - Only applicable clauses were shown



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\*\*\* End of Report \*\*\*

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