

## Test Report

No. 2241964/TY

Date : Jun 05 2009

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

### THIS REPORT IS TO SUPERSEDE TEST REPORT NO. 2240785/TY.

The following samples were submitted and identified on behalf of the client as  
ZOOBDUBES-FIREMAN, ROCK CLIMBER, RANGER

Detail of Sample: 3 STYLES ASSORTED PLASTIC ASSEMBLE TOY CONTAIN A FIREMAN, A  
WORKER & A FIGURE WITH PARACHUTE, EACH COMES WITH AN  
INSTRUCTION SHEET. WINDOW BOX PACKED.

Sample Quantity	: 6 PCS
Style/Item No.	: 12001, 12002, 12003
Buyer	: INFINITOY, INC
Manufacturer	: HOPSTECH INDUSTRIES LTD.
Country of Origin	: CHINA
Country of Destination	: USA / EUROPE
Labeled Age Grading	: FOR AGES 6 & UP
Requested Age Grading	: FOR AGES 6 & UP
Age Group Applied in Testing	: OVER 6 YEARS
Sample Receiving Date	: MAY 27, 2009
Testing Period	: MAY 27, 2009 TO JUN 02, 2009

### TESTING REQUESTED :

For compliance with the Physical & Mechanical, Flammability, Total Lead & Heavy Metal Test requirements of ASTM F963-07<sup>e1</sup> 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 Hong Kong Ltd

  
Lul Tat Wah, Wallace  
Senior Technical Manager

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Results :

ASTM F963 – 07<sup>e1</sup>

AS SPECIFIED IN ASTM F963-07<sup>e1</sup> 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 **	<u>Pass</u>
4.2	Flammability Test	<u>Pass (See Note 1)</u>
4.3.5	Paint & Similar Surface-coating Material	<u>Pass (See Note 2)</u>
4.7	Accessible Edges	<u>Pass</u>
4.9	Accessible Points	<u>Pass</u>
4.12	Packaging Film	<u>Pass</u>
5.0	<u>Safety Labelling Requirements</u>	
5.2	Age Grading Labeling	<u>Pass</u>
7.0	<u>Producers Markings</u>	
7.1	Producers Markings	<u>Pass</u>
8.0	<u>Test Methods</u>	
8.5	Normal Use Testing	<u>Pass</u>
8.7	Impact Test	<u>Pass</u>
8.8	Torque Test	<u>Pass</u>
8.9	Tension Test	<u>Pass</u>

\*\* Visual Examination

Note 1 :

Flammability Test (Clause 4.2)  
Flammability Test on Solid

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>
ZOBDUBES-FIREMAN, ROCK CLIMBER, RANGER	0.1*

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

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 F963-07<sup>e1</sup> – Heavy Metals Analysis : Total Lead (Clause 4.3.5.1)

TOTAL LEAD CONTENT – SAMPLES WERE DIGESTED IN NITRIC ACID (1+1) AND CONCENTRATED HYDROCHLORIC ACID BY MICROWAVE DIGESTION SYSTEM. ANALYSIS WAS PERFORMED BY ATOMIC ABSORPTION OR INDUCTIVELY COUPLED ARGON PLASMA SPECTROMETRY.

<u>Element</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>Limit*</u>
Total Lead (Pb)	< 20	< 20	< 20	< 20	90 mg/kg

\* Conclusion is based on the 90mg/kg limit requirement according to US 16 CFR 1303, effective 14 August, 2009. The current permissible limit is no more than 600mg/kg.

(Results shown are of the total weight of dry sample)

1. Yellow Coating on Plastic Sheet (Parachute) with Black & White Coating (Face)
2. Red Coating on Plastic Sheet (Parachute)
3. Orange with Yellow Coating on Plastic Sheet (Parachute)
4. Blue with Dk. Blue Coating on Plastic Sheet (Parachute)

< = Less than

ASTM F963-07<sup>e1</sup> – 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 F963-07<sup>e1</sup> (CLAUSE 8.3). ANALYSIS WAS PERFORMED BY ATOMIC ABSORPTION OR INDUCTIVELY COUPLED ARGON PLASMA SPECTROMETRY.

<u>Element</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>Limit</u>
Soluble Lead (Pb)	< 5	< 5	< 5	< 5	90 mg/kg
Soluble Antimony (Sb)	< 5	< 5	18	15	60 mg/kg
Soluble Arsenic (As)	< 5	< 5	< 5	< 5	25 mg/kg
Soluble Barium (Ba)	34	28	141	93	1000 mg/kg
Soluble Cadmium (Cd)	< 5	< 5	< 5	< 5	75 mg/kg
Soluble Chromium (Cr)	< 5	< 5	< 5	< 5	60 mg/kg
Soluble Mercury (Hg)	< 6.7	< 6.7	< 6.7	< 6.7	60 mg/kg
Soluble Selenium (Se)	< 10	< 10	< 10	< 10	500 mg/kg

Mass of trace amount of sample 1 = 20.8mg

Mass of trace amount of sample 2 = 16.9mg

1. Blue with Dk. Blue Coating on Plastic Sheet (Parachute)
2. Orange with Yellow Coating on Plastic Sheet (Parachute)
3. Yellow Coating on Plastic Sheet (Parachute)
4. Red Coating on Plastic Sheet (Parachute)

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Remark : Insufficient test portion of the following components was present on the received samples(s), therefore such components were not tested for soluble heavy metal, as specified in the ASTM F963-07<sup>e1</sup> clause 8.3.3 – Preparation of test samples.

Description	Mass (mg)
1. Black Coating (Face)	< 10
2. White Coating (Face)	< 10

Note : - < = Less than  
 - Results of soluble elements 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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