

Test Report

No. 2180103/TY

Date : Apr 03 2008

Page 1 of 4

HOPSTECH INDUSTRIES LIMITED
ROOM 1411, BLK A,
HOI LUEN IND CENTRE
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KOWLOON
HONG KONG

The following samples were submitted and identified on behalf of the client as
QUIZMO FLIP - CHALLENGER SET
QUIZMO FLIP – STARTER SET

Detail of sample : GAME SET CONTAINS PLASTIC GAME BOX WITH SOUND AND LED LIGHT,
QUESTION CARD STAND, GAME BOX REQUIRED 2 “AAA” BATTERIES
(INCLUDED). PACKED IN WINDOW BOX.

Style / Item No. : #28020, #28001
Buyer : INFINITOY, INC
Manufacturer : HOPSTECH INDUSTRIES LTD.
Country of Origin : CHINA
Country of Destination : UNITED STATES
Labeled Age Grading : FOR AGES 7 & UP
Age Group Applied in Testing : 3 YEARS +
Sample Receiving Date : FEB 05, 2008
Last Information Receiving Date : MAR 31, 2008
Testing Period : FEB 05, 2008 TO APR 02, 2008

TESTING REQUESTED :

For compliance with the Physical & Mechanical, Flammability, Lead & Heavy Metal, Battery Operated
Toys test requirements of ASTM F963-07 Standard Consumer Safety Specification on Toy Safety.

RESULTS :

Details please refer to next page.

CONCLUSION :

The submitted sample comply with the requested test requirements.

Signed for and on behalf of
SGS Hong Kong Ltd.



Chan Wai Keung, Reeve
Laboratory Executive

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Results :

ASTM F963 – 07

AS SPECIFIED IN ASTM F963-07 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>
4.5	Sound-Producing Toys	<u>Pass</u>
4.7	Accessible Edges	<u>Pass</u>
4.9	Accessible Points	<u>Pass</u>
4.11	Nails and Fasteners	<u>Pass</u>
4.25	Battery-Operated Toys	<u>Pass</u>
4.39	Magnets	<u>Pass</u>
5.0	<u>Safety Labelling Requirements</u>	
5.2	Age Grading Labeling	<u>Pass</u>
6.0	<u>Instructional Literature</u>	
6.6	Battery-Operated Toys	<u>Pass</u>
7.0	<u>Producers Markings</u>	
7.1	Producers Markings	<u>Pass</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>
QUIZMO FLIP - CHALLENGER SET	0.03
QUIZMO FLIP – STARTER SET	

Requirement : A toy / component is considered a “flammable solid” if it ignites and burns with a self-sustaining flame at 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 – 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>Limit</u>
Total Lead (Pb)	< 20	< 20	600 mg/kg

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

Composite Sample Description

1. White Paint (Words) + Purple Paint (Words) + Black Paint (Metal Spring)
2. Composite Coating (Book)

< = Less than

ASTM F963-07 – 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 (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>Limit</u>
Soluble Lead (Pb)	< 5	< 5	90 mg/kg
Soluble Antimony (Sb)	< 5	< 5	60 mg/kg
Soluble Arsenic (As)	< 5	< 5	25 mg/kg
Soluble Barium (Ba)	< 10	12	1000 mg/kg
Soluble Cadmium (Cd)	< 5	< 5	75 mg/kg
Soluble Chromium (Cr)	< 5	7	60 mg/kg
Soluble Mercury (Hg)	< 6.7	< 6.7	60 mg/kg
Soluble Selenium (Se)	< 10	< 10	500 mg/kg

Mass of trace amount of 1 = 23.3 mg

Mass of trace amount of 2 = 21.3 mg

1. Composite Coating (Book)
2. Black Coating (Metal Spring)

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 clause 8.3.3 – Preparation of test samples.

<u>Description</u>	<u>Mass (mg)</u>
1. Purple Coating (Words)	0.1
2. White Coating (Words)	7.5

Note : - < = Less than
 - Results of soluble elements shown are of the adjusted analytical result.



*** End of Report ***

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