



STC Test Report

Date : 2008-05-13
No. : HP183531

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Applicant (YOC004) : Yoshiritsu Co Ltd
1513 Koshibe Oyodo Yoshinio
Nara 638-0803 Japan

Attn: Mo Saeki

Description of Samples : One set of submitted sample said to be:
LAQ FREESTYLE PALLET (see attached photo)
COUNTRY OF ORIGIN: JAPAN

Date Samples Received : 2008-03-05

Date Tested : 2008-03-05 to 2008-04-15

Investigation Requested : Selected test (s) as detailed herein.

Conclusions : ASTM F963-07^{E1}: physical and mechanical tests
The submitted sample complied with the test requirement.

ASTM F963-07^{E1}: flammability test
The submitted sample complied with the test requirement.

ASTM F963-07^{E1}: heavy metals content
The submitted sample complied with the test requirement.

EN71-1:2005+A4:2007
The submitted sample complied with the test requirement.

EN71-2:2006+A1:2007
The submitted sample complied with the test requirement.

EN71-3:1994, amendment A1:2000/AC:2002
The submitted sample complied with the test requirement.

WONG Wing-cheung, Benny
Toys & Children's Products Department
For and on behalf of
The Hong Kong Standards and Testing Centre Ltd.

The Hong Kong Standards and Testing Centre Ltd.

10 Dai Wang Street, Taipo Industrial Estate, N.T., Hong Kong
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Date Samples Received : 2008-03-05

Date Tested : 2008-03-05 to 2008-04-15

Investigation Requested : (1) ASTM Standard Consumer Safety Specification on Toy Safety, F963-07^{E1}:
- physical and mechanical tests
- flammability test
- heavy metal tests
(2) European Standard for Safety of Toys
- EN71-1:2005+A4:2007
- EN71-2:2006+A1:2007
- EN71-3:1994, amendment A1:2000/AC:2002

AGE GRADING:

The sample was appropriately age graded with the marking of "Ages 5+".

AGE GRADING FOR TESTING:

5 years and up.

Test Results :

1. ASTM F963-07^{E1}

1.1 Mechanical and physical hazards

Ref.: ASTM F963-07^{E1}

Applicable requirements before and after use and abuse testing:

<u>Applicable Section</u>	<u>Description</u>	<u>Result</u>
4	<u>Safety requirements</u>	
4.1	Material quality (by visual assessment)	Pass
4.2	Flammability	Pass*
4.3	Toxicology	Pass*
4.6	Small objects	Pass
4.7	Accessible edges	Pass
4.9	Accessible points	Pass
4.12	Packaging film	Pass
5	<u>Labeling requirements</u>	
5.1	Federal government requirements	Pass
5.2	Age grading labeling	Pass
5.3	Safety labeling requirements	Pass
5.11	Small objects, small balls, marbles and balloons	Pass
7	<u>Producer's markings</u>	
7.1	Name and address of the producer or distributor	Pass

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Use and abuse testing:

<u>Applicable section</u>	<u>Description</u>	<u>Test Condition</u>
8.5	Normal use testing	
8.6	Abuse testing	
8.7	Impact tests	4 drops at 3ft.
8.8	Torque tests	4 in-lbs.
8.9	Tension tests	15 lbs.
8.10	Compression tests	30 lbs.

* = Refer to the relevant test results at the following pages.

1.2 Flammability test of material other than textiles

Ref.: ASTM F963-07^{E1} Section 4.2
Method used: FHSA 16 CFR 1500.44
Result: Pass

<u>Sample</u>	<u>Burn rate (in./sec.)</u>
Accessories	0.02
Wheels	0.01

Note: In accordance with the FHSA, the burning rate should not be greater than 0.1 inch per second.

1.3 Heavy metals analysis

Ref.: ASTM F963-07^{E1} Section 4.3.5
Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Total lead analysis

Coating material

- (a) Paper sheet: black/dark grey/light grey
- (b) Leaflet: green/blue/red multicolour
- (c) Booklet: dark blue/yellow/red multicolour
- (d) Instruction sheet: orange/black/yellow multicolour
- (e) Instruction book: dark blue/brown/green multicolour
- (f) Sticker: dark blue/black/yellow multicolour

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
a	<0.005%	0.06%
b	<0.005%	0.06%
c	<0.005%	0.06%
d	<0.005%	0.06%
e	<0.005%	0.06%
f	<0.005%	0.06%

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Soluble metals test

Coating material

- (a) Paper sheet: black/dark grey/light grey (see Note)
- (b) Leaflet: green/blue/red multicolour
- (c) Booklet: dark blue/yellow/red multicolour
- (d) Instruction sheet: orange/black/yellow multicolour
- (e) Instruction book: dark blue/brown/green multicolour
- (f) Sticker: dark blue/black/yellow multicolour (see Note)

Note: There were insufficient uniform coating to produce the test portion of 100 mg in one sample. According to the Standard, the quantities of the elements were calculated as if 100 mg of test portion had been used. The actual weights of the specified coatings used for analysis were shown below:

(a)	Black/dark grey/light grey.....	25mg
(f)	Dark blue/black/yellow multicolour.....	88mg

	<u>a</u>	<u>b</u>	<u>c</u>	<u>Limit</u>
Soluble lead.....	<2ppm	<2ppm	<2ppm	90ppm
Soluble cadmium.....	<2ppm	<2ppm	<2ppm	75ppm
Soluble chromium.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble barium.....	8ppm	5ppm	4ppm	1000ppm
Soluble antimony.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble selenium.....	<2ppm	<2ppm	<2ppm	500ppm

	<u>d</u>	<u>e</u>	<u>f</u>	<u>Limit</u>
Soluble lead.....	<2ppm	<2ppm	<2ppm	90ppm
Soluble cadmium.....	<2ppm	<2ppm	<2ppm	75ppm
Soluble chromium.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble barium.....	11ppm	10ppm	3ppm	1000ppm
Soluble antimony.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble selenium.....	<2ppm	<2ppm	<2ppm	500ppm

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2. EN71

2.1 EN71-1:12005+A4:2007 - Part 1: Mechanical and physical properties

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4	<u>General requirements</u>	
4.1	Materials	Pass
4.7	Edges	Pass
4.8	Points and wire	Pass
7	<u>Warning and instructions for use</u>	
7.1	General	Pass
7.2	Toys not intended for children under 36 months	Pass

2.2 EN71-2:2006+A1:2007 - Part 2: Flammability

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General	Pass

2.3 EN71-3:1994, amendment A1:2000/AC:2002 - Part 3: Migration of certain elements
Method used: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Polymeric material

- (a) Base block: bluish grey
- (b) Puzzle pieces: red
- (c) Puzzle pieces: yellow
- (d) Puzzle pieces: blue
- (e) Puzzle pieces: green
- (f) Puzzle pieces: pink
- (g) Puzzle pieces: orange
- (h) Puzzle pieces: sky blue
- (i) Puzzle pieces: light green
- (j) Puzzle pieces/joint: black
- (k) Puzzle pieces: ivory white
- (l) Tyres: soft, black
- (m) Wheels: white

Paper and board

- (n) Paper sheet: white paper with black/dark grey/light grey printing
- (o) Leaflet: white paper with green/blue/red multicolour printing
- (p) Booklet: white paper with dark blue/yellow/red multicolour printing
- (q) Instruction sheet: white paper with orange/black/yellow multicolour printing
- (r) Instruction book: white paper with dark blue/brown/green multicolour printing
- (s) Sticker: white paper with/dark blue/black/yellow/multicolor printing

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	a	b	c	Limit
Soluble lead.....	<2mg/kg	<2mg/kg	<2mg/kg	90mg/kg
Soluble cadmium.....	<2mg/kg	<2mg/kg	<2mg/kg	75mg/kg
Soluble chromium.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble barium.....	<2mg/kg	<2mg/kg	<2mg/kg	1000mg/kg
Soluble antimony.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble arsenic.....	<2mg/kg	<2mg/kg	<2mg/kg	25mg/kg
Soluble mercury.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble selenium.....	<2mg/kg	<2mg/kg	<2mg/kg	500mg/kg

	d	e	f	Limit
Soluble lead.....	<2mg/kg	<2mg/kg	<2mg/kg	90mg/kg
Soluble cadmium.....	<2mg/kg	<2mg/kg	<2mg/kg	75mg/kg
Soluble chromium.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble barium.....	<2mg/kg	<2mg/kg	<2mg/kg	1000mg/kg
Soluble antimony.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble arsenic.....	<2mg/kg	<2mg/kg	<2mg/kg	25mg/kg
Soluble mercury.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble selenium.....	<2mg/kg	<2mg/kg	<2mg/kg	500mg/kg

	g	h	i	Limit
Soluble lead.....	<2mg/kg	<2mg/kg	<2mg/kg	90mg/kg
Soluble cadmium.....	<2mg/kg	<2mg/kg	<2mg/kg	75mg/kg
Soluble chromium.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble barium.....	<2mg/kg	<2mg/kg	<2mg/kg	1000mg/kg
Soluble antimony.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble arsenic.....	<2mg/kg	<2mg/kg	<2mg/kg	25mg/kg
Soluble mercury.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble selenium.....	<2mg/kg	<2mg/kg	<2mg/kg	500mg/kg

	j	k	l	Limit
Soluble lead.....	<2mg/kg	<2mg/kg	<2mg/kg	90mg/kg
Soluble cadmium.....	<2mg/kg	<2mg/kg	<2mg/kg	75mg/kg
Soluble chromium.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble barium.....	<2mg/kg	<2mg/kg	<2mg/kg	1000mg/kg
Soluble antimony.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble arsenic.....	<2mg/kg	<2mg/kg	<2mg/kg	25mg/kg
Soluble mercury.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble selenium.....	<2mg/kg	<2mg/kg	<2mg/kg	500mg/kg

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	<u>m</u>	<u>n</u>	<u>o</u>	<u>Limit</u>
Soluble lead.....	<2mg/kg	<2mg/kg	<2mg/kg	90mg/kg
Soluble cadmium.....	<2mg/kg	<2mg/kg	<2mg/kg	75mg/kg
Soluble chromium.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble barium.....	<2mg/kg	4mg/kg	4mg/kg	1000mg/kg
Soluble antimony.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble arsenic.....	<2mg/kg	<2mg/kg	<2mg/kg	25mg/kg
Soluble mercury.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble selenium.....	<2mg/kg	<2mg/kg	<2mg/kg	500mg/kg

	<u>p</u>	<u>q</u>	<u>r</u>	<u>Limit</u>
Soluble lead.....	<2mg/kg	<2mg/kg	<2mg/kg	90mg/kg
Soluble cadmium.....	<2mg/kg	<2mg/kg	<2mg/kg	75mg/kg
Soluble chromium.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble barium.....	4mg/kg	9mg/kg	5mg/kg	1000mg/kg
Soluble antimony.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble arsenic.....	<2mg/kg	<2mg/kg	<2mg/kg	25mg/kg
Soluble mercury.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble selenium.....	<2mg/kg	<2mg/kg	<2mg/kg	500mg/kg

	<u>s</u>	<u>Limit</u>
Soluble lead.....	<2mg/kg	90mg/kg
Soluble cadmium.....	<2mg/kg	75mg/kg
Soluble chromium.....	<2mg/kg	60mg/kg
Soluble barium.....	<2mg/kg	1000mg/kg
Soluble antimony.....	<2mg/kg	60mg/kg
Soluble arsenic.....	<2mg/kg	25mg/kg
Soluble mercury.....	<2mg/kg	60mg/kg
Soluble selenium.....	<2mg/kg	500mg/kg

***** End of Test Report *****

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Appendix for Photos of the Submitted Sample



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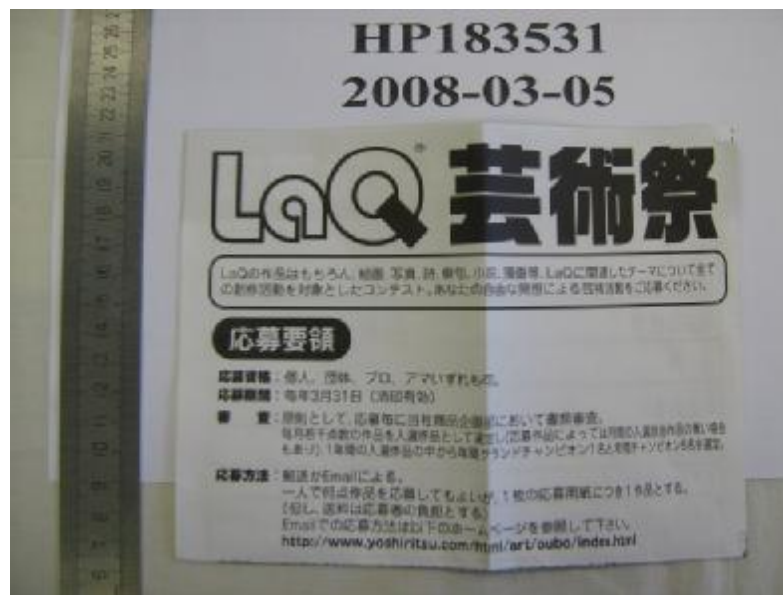
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