



STC Test Report

Date : 2008-09-24

No. : HP190314

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Applicant (ZHY006) :

Description of Samples : Twelve styles of submitted sample each in ten pieces said to be:
METAL BEADS (TOTAL 12 DESIGN) (see attached photo)
P.O./REF. NO.: YUJIN ORDER
COUNTRY OF ORIGIN: CHINA
COUNTRY OF DESTINATION: JAPAN
BUYER: TOMAN CORPORATION (YUJIN)

Date Samples Received : 2008-09-06

Date Tested : 2008-09-06 to 2008-09-11

Investigation Requested : 8 Heavy Metals Test.

WONG Yau-wai, Johnny
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.

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Test Results :

8 Heavy Metals Test

Ref.: Japan Toy Safety Standard: Part 3:2002 (Sixth Edition)

Method used: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Polymeric material

- (a) Metal bead (#1): transparent plastic with black/flesh coating at the base (see Note)
- (b) Metal bead (#2): transparent plastic with yellow coating at the base (see Note)
- (c) Metal bead (#3): transparent plastic with black/flesh/red coating at the base (see Note)
- (d) Metal bead (#4): transparent plastic with brown/light brown coating at the base (see Note)
- (e) Metal bead (#5): transparent plastic with red/yellow coating at the base (see Note)
- (f) Metal bead (#6): transparent plastic with white coating at the base (see Note)
- (g) Metal bead (#7): transparent plastic with brown/yellow/light orange coating at the base (see Note)
- (h) Metal bead (#8): transparent plastic with white/pink/red coating at the base (see Note)
- (i) Metal bead (#9): transparent plastic with pink/deep pink/red/yellow coating at the base (see Note)
- (j) Metal bead (#10): transparent plastic with pink coating at the base (see Note)
- (k) Metal bead (#11): transparent plastic with red/deep pink coating at the base (see Note)
- (l) Metal bead (#12): transparent plastic with blue/light blue/deep blue/pale pink/black coating at the base (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)	Transparent plastic with black/flesh coating at the base.....	28mg
(b)	Transparent plastic with yellow coating at the base.....	11mg
(c)	Transparent plastic with black/flesh/red coating at the base.....	16mg
(d)	Transparent plastic with brown/light brown coating at the base...	12mg
(e)	Transparent plastic with red/yellow coating at the base.....	17mg
(f)	Transparent plastic with white coating at the base.....	11mg
(g)	Transparent plastic with brown/yellow/light orange coating at the base.....	11mg
(h)	Transparent plastic with white/pink/red coating at the base.....	12mg
(i)	Transparent plastic with pink/deep pink/red/yellow coating at the base.....	11mg
(j)	Transparent plastic with pink coating at the base.....	14mg
(k)	Transparent plastic with red/deep pink coating at the base.....	11mg
(l)	Transparent plastic with blue/light blue/deep blue/pale pink/black coating at the base.....	14mg

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Metallic material

- (m) Metal bead (#1): silver color metal
- (n) Metal bead (#2): silver color metal
- (o) Metal bead (#3): silver color metal
- (p) Metal bead (#4): silver color metal
- (q) Metal bead (#5): silver color metal
- (r) Metal bead (#6): silver color metal
- (s) Metal bead (#7): silver color metal
- (t) Metal bead (#8): silver color metal
- (u) Metal bead (#9): silver color metal
- (v) Metal bead (#10): silver color metal
- (w) Metal bead (#11): silver color metal
- (x) Metal bead (#12): silver color metal

	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	4mg/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.....	20mg/kg	7mg/kg	3mg/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.....	4mg/kg	6mg/kg	11mg/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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	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.....	4mg/kg	4mg/kg	17mg/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

	m	n	o	Limit*
Soluble lead.....	<2mg/kg	<2mg/kg	<2mg/kg	90mg/kg
Soluble cadmium.....	<2mg/kg	<2mg/kg	<2mg/kg	75mg/kg
Soluble chromium.....	25mg/kg	18mg/kg	29mg/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

	p	q	r	Limit*
Soluble lead.....	<2mg/kg	<2mg/kg	<2mg/kg	90mg/kg
Soluble cadmium.....	<2mg/kg	<2mg/kg	<2mg/kg	75mg/kg
Soluble chromium.....	14mg/kg	7mg/kg	71mg/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

	s	t	u	Limit*
Soluble lead.....	<2mg/kg	<2mg/kg	<2mg/kg	90mg/kg
Soluble cadmium.....	<2mg/kg	<2mg/kg	<2mg/kg	75mg/kg
Soluble chromium.....	39mg/kg	3mg/kg	5mg/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>V</u>	<u>W</u>	<u>X</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.....	31mg/kg	6mg/kg	27mg/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

* = For reference only.

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

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Appendix for Photos of the Submitted Sample



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