



Test Report

Report No.: CTT09050115EN

Date: May 08, 2009

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Client: LOCKMADE

Address: 3547 53RD AVE W, #211, BRADENTON, FL, 34210

The following merchandise was (were) submitted and identified by client as:

Sample Name: PLASTIC TUBULAR BUILDING TOY

Item No.: 72001

P.O. No.: 46-9

Sample Received Date: May 07, 2009

Completed Date: May 08, 2009

Test Requested: (1)ASTM F963:2008 physical and mechanical tests/ fammability test.
(2)According to EN71-1 standard testing physical and mechanical tests ;
EN71-2 standard testing fammability test;
EN71-3 standard testing Soluble Lead(Pb)/Cadmium(Cd)/Chromium(Cr)/
Antimony(Sb)/Selenium(Se)/ Barium(Ba)/Arsenic(As)/Mercury(Hg) content of
sample.
(3)Inspect Total Lead(Pb) content of sample.
(4) Inspect Phthalate content of sample.

Test method and Test equipment: please refer to next page.

Test result: please refer to next page.

Authorized by:

China Top Testing Organization

Kan

Technology Manager

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1 Reference for the ASTM F963-08.

PHYSICAL AND MECHANICAL TESTS

AS PER ASTM STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY F963-08

APPLICANT'S SPECIFIED AGE GROUP FOR TESTING : OVER 3 YEARS

SECTION	TESTING ITEMS	ASSESSMENT
4.1	Material quality (visual check on cleanliness)	PASS
4.2 F	AMMABILITY TEST	PASS
4.5 Sound	producing toys	NA
4.6.1	Toys intended for children under 36 months of age	NA
4.6.2 M	outh actuated toys	NA
4.6.3	Toys and games for 36 months to 72 months—Small part warning	NA
4.7	Accessible edges (under 8 years of age)	PASS
4.8	Projections (under 8 years of age)	NA
4.9	Accessible points (under 8 years of age)	PASS
4.10	Wires or rods	NA
4.11 Nails	and fasteners	NA
4.12 Packaging	film	NA
4.13	Folding mechanisms and hinges	NA
4.14	Cords, straps, and elastics	NA
4.15	Stability and overload requirements	NA
4.16 Confined	spaces	NA
4.17	Wheels, tires, and axles (aged 96 months or less)	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.19 Simula	ted protective devices	NA
4.20	Pacifiers (under 36 months of age)	NA
4.21 Projectile	toys	NA
4.22	Teethers and teething toys	NA
4.23 Rattles		NA

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SECTION	TESTING ITEMS	ASSESSMENT
4.24	Squeeze toys (under age of 18 months)	NA
4.25 Ba	attery operated toys	NA
4.26	Toys intended to be attached to a crib or playpen	NA
4.27	Stuffed and beanbag type toys	NA
4.28	Stroller and carriage toys	NA
4.29 Art	materials	NA
4.30	Toy gun marking	NA
4.31 Balloons—sa	fety labelling	NA
4.32	Certain toys with spherical ends	NA
4.33	Marbles (3 years of age or older)	NA
4.34 Balls		NA
4.35	Pompoms (under 3 years of age)	NA
4.36 Hemispher	ic-Shaped Objects	NA
4.37	Yo Yo Elastic Tether Toys	NA
4.38 Magne	ts	NA
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
5 LA	BELLING REQUIREMENTS	PASS
6 IN	STRUCTIONAL LITERATURE	PASS
7 PRODUCER'S	MARKING	PASS

Conclusion:Based on the performed tests on submitted samples, the result complies with the ASTM F963-08 Standard Consumer Safety Specification for Toy Safety.

Note : NA = NOT APPLICABLE

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2 Reference for the EN 71.

2.1 MECHANICAL AND PHYSICAL TEST

AS PER EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 1:2005+A6:2008

APPLICANT'S SPECIFIED AGE GROUP FOR TESTING: OVER 3 YEARS

<u>CLAUS</u>	<u>TESTING ITEMS</u>	<u>ASSESSMENT</u>
4	GENERAL REQUIREMENTS	<u>P ASS</u>
5	T OYS INTENDED FOR CHILDREN UNDER 36 MONTHS	<u>NA</u>
6	PACKAGING	<u>NA</u>
7	W ARNINGS AND INSTRUCTIONS FOR USE	<u>P ASS</u>

Note : NA = NOT APPLICABLE

2.2 EN71 PART 2 :2006 FLAMMABILITY TEST (TOYS)

As per european standard on safety of toys EN71 Part 2:2006

CLAUSE	TESTING ITEMS	ASSESSMENT
4.1	General Celluloid Highly flammable soild Flammable liquid, gel or gas	PASS

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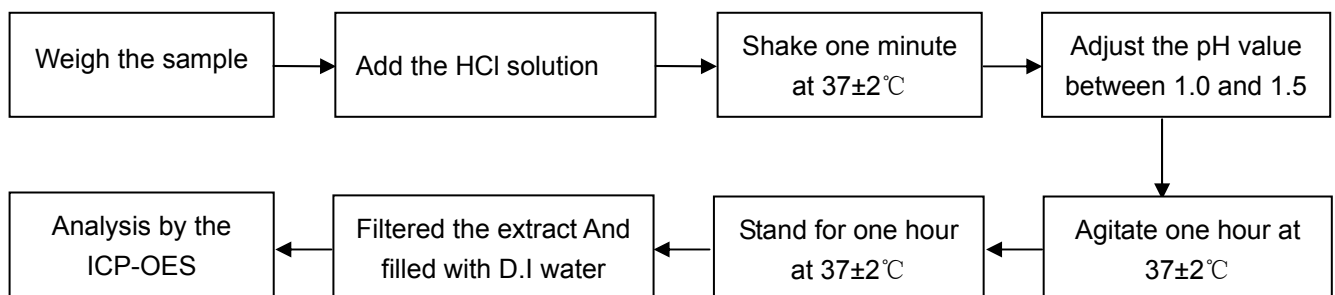
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(2.3) Test method and Test equipment: As Specified in European Standard on Safety of toys EN 71-3:1994+A1:2000+AC:2002 Migration of Certain Elements. Acid extraction method was used and toxic elements content were determined by Inductively Coupled Plasma Optical Emission Spectrometer(ICP-OES).

Test process:

To Determine Soluble Lead/Cadmium/Chromium/Antimony/Selenium/Barium/Arsenic/Mercury Content:



Test Results(2.3):

Test Item	Unit	MDL	Limit	Result				
				No.1	No.2	No.3	No.4	No.5
Soluble Lead(Pb)	ppm	2	90	N.D.	N.D.	N.D.	N.D.	
Soluble Cadmium(Cd)	ppm	2	75	N.D.	N.D.	N.D.	N.D.	
Soluble Chromium(Cr)	ppm	2	60	N.D.	N.D.	N.D.	N.D.	
Soluble Antimony(Sb)	ppm	2	60	N.D.	N.D.	N.D.	N.D.	
Soluble Selenium(Se)	ppm	2	500	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Barium(Ba)	ppm	2	1000	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Arsenic(As)	ppm	2	25	N.D.	N.D.	N.D.	N.D.	
Soluble Mercury(Hg)	ppm	2	60	N.D.	N.D.	N.D.	N.D.	

Conclusion(2.2): Based on the performed tests on submitted samples, the result complies with the EN71-3 Safety of Toys.

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Specimen Description:

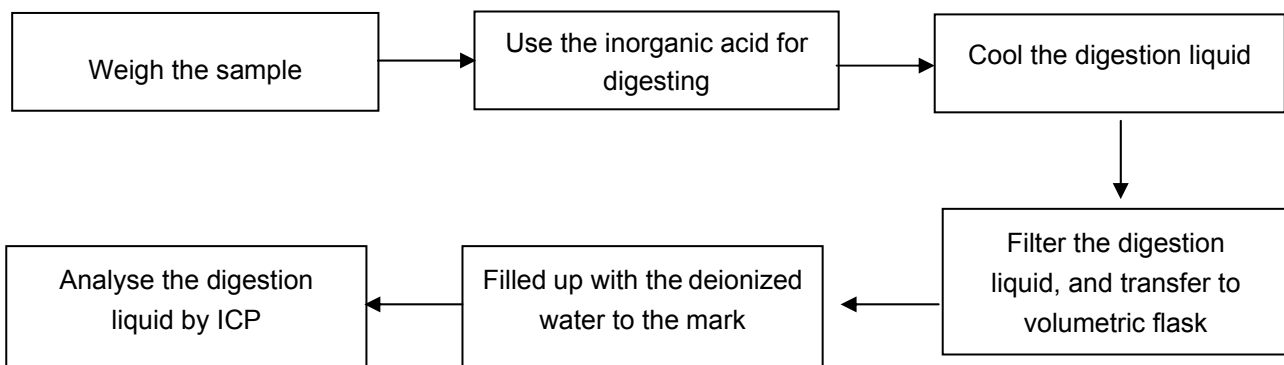
No.	Test point	No.	Test point
No.1 RED	POLYPROPYLENE	No.4 GREEN	POLYPROPYLENE
No.2 ORANGE	POLYPROPYLENE	No.5 BLUE	POLYPROPYLENE
No.3 YELLOW	POLYPROPYLENE	/	/

- Note :**
- 1.ppm = mg/kg;
 - 2.MDL= method detection;
 - 3.N.D. = Not Detected.

3: Test method and Test equipment:

Test Item	Test Method	Test Equipment
Total Lead(Pb)	US EPA3052:1996&US EPA6010C:2007	ICP-OES

Test process:



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Test Results(3):

No.	Test Item	Unit	MDL	Limit#	Result
No.1 T	otal Lead(Pb)	ppm	2	A 600	N.D.
				B 300	
				C 100	
				D 600	
				E 90	
No.2 T	otal Lead(Pb)	ppm	2	A 600	N.D.
				B 300	
				C 100	
				D 600	
				E 90	
No.3 T	otal Lead(Pb)	ppm	2	A 600	N.D.
				B 300	
				C 100	
				D 600	
				E 90	
No.4 T	otal Lead(Pb)	ppm	2	A 600	N.D.
				B 300	
				C 100	
				D 600	
				E 90	
No.5 T	otal Lead(Pb)	ppm	2	A 600	N.D.
				B 300	
				C 100	
				D 600	
				E 90	
No.6 T	otal Lead(Pb)	ppm	2	A 600	N.D.
				B 300	
				C 100	
				D 600	
				E 90	
No.7 T	otal Lead(Pb)	ppm	2	A 600	N.D.
				B 300	
				C 100	
				D 600	
				E 90	
No.8 T	otal Lead(Pb)	ppm	2	A 600	N.D.
				B 300	
				C 100	
				D 600	
				E 90	
No.9 T	otal Lead(Pb)	ppm	2	A 600	N.D.
				B 300	
				C 100	
				D 600	
				E 90	

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Conclusion(3):The testing result of sample comply with the requirements of America Consumer Product Safety Act(CPSA, Public Law 92-573) Sec.14(a)(3)(B)(i) and it's Improvement Act(Consumer Product Safety Improvement Act of 2008 (CPSIA, Public Law 110-314), Sec.101(a)(2)).

Specimen Description:

No.	Test point	No.	Test point
No.1 RED	POLYPROPYLENE	No.6	ORANGE COVER (BOX)
No.2 ORANGE	POLYPROPYLENE	No.7 TRANSP	ARENT PLASTIC (BOX)
No.3	YELLOW POLYPROPYLENE	No.8	BROWN PAPER BODY (BOX)
No.4 GREEN	POLYPROPYLENE	No.9	COLORFUL PAPER BODY (BOX)
No.5 BLUE	POLYPROPYLENE	/	/

- Note :**
1. ppm = mg/kg;
 2. N.D = Not Detected;
 3. MDL =method detection limit;
 4. "#"-According to the provision of Consumer Product Safety Improvement Act of 2008 (CPSIA, Public Law 110-314), Sec.101 and CPSC 16 CFR 1303:
 - A: From 02/10/2009 to 08/13/2009, The lead limit should not exceed 600ppm for any accessible part of children'products(12 years of age or younger);
 - B: From 08/14/2009 to 08/13/2011, The lead limit should not exceed 300ppm for any accessible part of children'products(12 years of age or younger);
 - C: From 08/14/2011, The lead limit should not exceed 100ppm for any accessible part of children'products(12 years of age or younger);
 - D: Before 08/14/2009, The lead limit in paint and surface coatings applies to toys and other articles intended for use by children and furniture articles should not exceed 600ppm;
 - E: After 08/14/2009, The lead limit in paint and surface coatings applies to toys and other articles intended for use by children and furniture articles should not exceed 90ppm.

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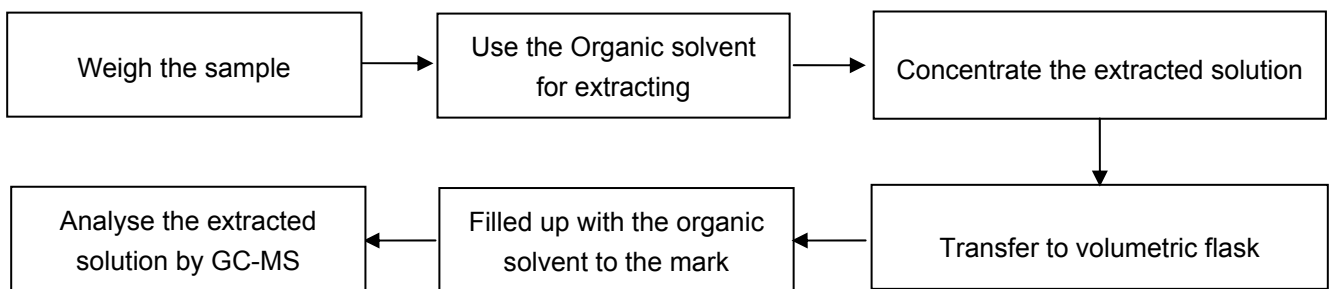
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4: Test method and Test Equipment:

Test Item	Test Method	Test Equipment
Phthalate	CPSC-CH-C1001-09	GC-MS

Test process(Phthalate):



Test Results(4.1):

Test Item	CAS No.	Unit	MDL	Limit	Result		
					No.1	No.2	No.3
Dibutyl Phthalate(DBP)	84-74-2	ppm	30	1000	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	ppm	30	1000	N.D.	N.D.	N.D.
Benzylbutyl Phthalate(BBP)	85-68-7	ppm	30	1000	N.D.	N.D.	N.D.
Diisononyl Phthalate (DINP)	28553-12-0	ppm	50	1000	N.D.	.D.	N.D.
Di-n-octyl Phthalate(DNOP)	117-84-0	ppm	30	1000	N.D.	N.D.	N.D.
Diisodecyl Phthalate (DIDP)	26761-40-0	ppm	50	1000	N.D.	.D.	N.D.

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Test Results(4.2):

Test Item	CAS No.	Unit	MDL	Limit	Result			
					No.4	No.5	No.6	No.7
Dibutyl Phthalate(DBP)	84-74-2	ppm	30	1000	N.D. N	.D.	N.D. N	.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	ppm	30	1000	N.D. N	.D.	N.D. N	.D.
Benzylbutyl Phthalate(BBP)	85-68-7	ppm	30	1000	N.D. N	.D.	N.D. N	.D.
Diisononyl Phthalate (DINP)	28553-12-0	ppm	50	1000	N.D. N	.D.	N.D. N	.D.
Di-n-octyl Phthalate(DNOP)	117-84-0	ppm	30	1000	N.D. N	.D.	N.D. N	.D.
Diisodecyl Phthalate (DIDP)	26761-40-0	ppm	50	1000	N.D. N	.D.	N.D. N	.D.

Conclusion: The testing result of sample comply with the requirements limit of Consumer Product Safety Improvement Act(CPSIA, Public Law 110-314), Sec.108(a)(b)on Phthalates in toys and childcare articles.

Specimen Description:

No.	Test point	No.	Test point
No.1 RED	POLYPROPYLENE	No.5 BLUE	POLYPROPYLENE
No.2 ORANGE	POLYPROPYLENE	No.6	ORANGE COVER (BOX)
No.3 YELLOW	POLYPROPYLENE	No.7 TRANSP	ARENT PLASTIC (BOX)
No.4 GREEN	POLYPROPYLENE	/	/

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- Note :**
1. ppm = mg/kg;
 2. N.D. = Not Detected;
 3. MDL = method detection limit;
 4. The concentration of DEHP, DBP or BBP can't be greater than 0.1% by mass of the plasticised material, in toys and childcare articles.
 5. The concentration of DINP, DIDP or DNOP can't be greater than 0.1% by mass of the plasticised material, in toys and childcare articles which can be placed in the mouth by

Sample Picture:



End of Report

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