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American National Standards Institute
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Hong Kong Association for Testing, Inspection and Certification Limited
Hong Kong Toys Council

Test Report

Number: HKGH0206090001

Applicant: KIDS STUFF LIMITED
RM 1201 MIRROR TOWER
61 MODY RD
TSIM SHA TSUI EAST KLN
HK

Date: Dec 13, 2016

Attn: HENRY YIH / LIAM FAN

Submitted sample said to be	:	
Item Name	:	Baa-bs Teether, Clucky Teether, Hammie Teether, Moo Moo Teether
Item No.	:	100244, 100245, 100246, 100247
Quantity	:	6 sets
Labelled Age Group	:	Not Specified
Packaging Provided	:	No
Vendor	:	YM



For and on behalf of :
Intertek Testing Services HK Ltd.

Angel Y.F. Cheung
Vice President





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Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) U.S. ASTM F963-11 - Physical and Mechanical tests	Pass
(2) ASTM F963-11 - Flammability Test of Materials other than textile materials	Pass
(3) ASTM F963-11 - Soluble heavy elements test	Pass
(4) ASTM F963-11 - Total Lead content	Pass
(5) U.S. Consumer Product Safety Improvement Act 2008 Title I Section 101 - Total Lead content in non-surface coating materials (substrate)	Pass
(6) U.S. CFR Title 16 (CPSC Regulations) - Part 1303 - Total Lead content in surface coating	Pass
U.S. Consumer Product Safety Improvement Act 2008 Title I Section 101 - Total Lead content in surface coating	Pass
(7) U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 108 - Phthalate content	Pass
(8) Phthalate content (US CPSIA Proposed Rules for additional phthalates)	See details enclosed



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(1) Physical and Mechanical Tests

Test Standard : ASTM Standard Consumer Safety Specification for Toy Safety F963-11

Age group for testing : For All Ages

The submitted samples were undergone the use and abuse tests in accordance with the Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations : -

<u>Test</u>	<u>FHSA</u>	<u>Parameter</u>
Compression test	Section 1500.53(g)	30 lbf
Drop Test	Section 1500.51(b)	10 x 4.5 ft
Tension test	Section 1500.53(f)	15 lbf
Torque test	Section 1500.53(e)	4 in-lbf

<u>Clause</u>	<u>Requirement</u>	<u>Assessment</u>
4.1	Material quality (visual check on cleanliness)	P
4.5	Sound producing toys	NA
4.6.1	Toys intended for children under 36 months of age	P
4.6.2	Mouth actuated toys	P
4.6.3	Toys and games for 36 months to 72 months - Small part warning	NA
4.7	Accessible edges	P
4.8	Projection	NA
4.9	Accessible points	P
4.10	Wires or rods	NA
4.11	Nails and fasteners	NA
4.12	Plastic film	NA
4.13	Folding mechanisms and hinges	NA
4.14	Cords, straps, and elastics	NA
4.15	Stability and overload requirement	NA
4.16	Confined spaces	NA
4.17	Wheels, tires, and axles	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.19	Simulated protective devices	NA
4.20	Pacifiers	NA
4.21	Projectile toys	NA
4.22	Teethers and teething toys	P
4.23	Rattles	NA
4.24	Squeeze toys	P
4.25	Battery 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	NA
4.32	Certain toys with nearly spherical ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispherical shaped objects	NA





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Clause	Requirement	Assessment
4.37	Yo Yo elastic tether toys	NA
4.38	Magnets	NA
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
5	Labeling requirements	NA
6	Instructional literature	NA
7	Producer's marking	
	- Name of producer / distributor	No
	- Address	No

Abbreviation : P = Pass NA = Not Applicable

The submitted samples were undergone the tests in accordance with section 8.5 through section 8.17 and 8.19 through 8.26 on normal use, abuse and specific tests for different types of toys whichever is applicable.

The final product or its packaging must be marked with the name and address of the producer or distributor as specified in Section 7.1 of U.S. ASTM F963-11.

Date sample received : Dec 07, 2016
Test Period : Dec 07, 2016 to Dec 12, 2016

(2) Flammability Tests

Test Standard : Section 4.2 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-11.

Sample	Ignition point	Burn length (inch)	Time (sec)	Burn Rate (inch/sec)	Limit (inch/sec)
Chicken	Foot	1.0	60	0.02	0.10

All styles of the submitted toy samples were tested, the above result only showed the most severe burn rate of the samples.

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(3) Heavy Elements Analysis

Test Method : Sections 8.3.2, 8.3.3, 8.3.4 and 8.3.5 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-11, acid extraction and analysed by Inductively Coupled Argon Plasma Spectrometry.

Materials other than modelling clay:

	Result (ppm)			Limit (ppm)
	(7)	(9)	(10)	
Soluble Barium (Ba)	<5	<5	<5	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

	Result (ppm)		Limit (ppm)
	(11)	(12)	
Soluble Barium (Ba)	<5	<5	1000
Soluble Lead (Pb)	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	75
Soluble Antimony (Sb)	<5	<5	60
Soluble Selenium (Se)	<5	<5	500
Soluble Chromium (Cr)	<5	<5	60
Soluble Mercury (Hg)	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	25

ppm = parts per million = mg/kg

@ : Since the sample weight of the component was less than 10 mg, soluble heavy metal analysis was not applicable.

Tested Components:

- (1) @ Pale pink coating on plastic (bow, ears, blush of sheep teether).
- (2) @ Brown coating on plastic (ears of all teether).
- (3) @ Pale purple coating on plastic (feet of sheep teether).
- (4) @ Dull orange coating on plastic (crest, feet of chick teether).
- (5) @ Red coating on plastic (beak of chick teether).
- (6) @ Dull pink coating on plastic (blush of chick teether).
- (7) Light brown coating on plastic (head, body of cow teether).
- (8) @ Light pink coating on plastic (ears, nose, blush, feet, tail of pig teether).
- (9) Pale pink plastic (sheep teether).
- (10) Yellow plastic (chick teether).
- (11) Beige plastic (cow teether).
- (12) Pink plastic (pig teether).

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(4) Total Lead (Pb) Content

Test Method : Sections 4.3.5.1(1) and 4.3.5.2(2)(a) of the ASTM Standard Consumer Safety Specification for Toy Safety F963-11, CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3 or/and CPSC-CH-E1003-09.1, analysed by Inductively Coupled Argon Plasma Spectrometry.

Coating:

Tested Component	Result in ppm	Limit in ppm
(1)	<20	90
(2)	<20	90
(3)	<20	90
(4)	<20	90
(5)	<20	90
(6)	<20	90
(7)	<20	90
(8)	<20	90

Substrate:

Tested Component	Result in ppm	Limit in ppm
(9)	<20	100
(10)	<20	100
(11)	<20	100
(12)	<20	100

ppm = parts per million = mg/kg

Tested Components:

- (1) Pale pink coating on plastic (bow, ears, blush of sheep teether).
- (2) Brown coating on plastic (ears of all teether).
- (3) Pale purple coating on plastic (feet of sheep teether).
- (4) Dull orange coating on plastic (crest, feet of chick teether).
- (5) Red coating on plastic (beak of chick teether).
- (6) Dull pink coating on plastic (blush of chick teether).
- (7) Light brown coating on plastic (head, body of cow teether).
- (8) Light pink coating on plastic (ears, nose, blush, feet, tail of pig teether).
- (9) Pale pink plastic (sheep teether).
- (10) Yellow plastic (chick teether).
- (11) Beige plastic (cow teether).
- (12) Pink plastic (pig teether).

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(5) Total Lead (Pb) Content in Non-Surface Coating Materials (Substrate)

Test Method : Standard Operating Procedures for Determining Total Lead (Pb) in Children's Products, test methods CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001.08.3, analysed by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in ppm	Limit in ppm
(1)	<20	100
(2)	<20	100
(3)	<20	100
(4)	<20	100

ppm = parts per million = mg/kg

Tested Components:

- (1) Pale pink plastic (sheep teether).
- (2) Yellow plastic (chick teether).
- (3) Beige plastic (cow teether).
- (4) Pink plastic (pig teether).

Date sample received : Dec 07, 2016
Test Period : Dec 07, 2016 to Dec 13, 2016

(6) Total Lead (Pb) Content in Surface Coating

Test Method : Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, test method CPSC-CH-E1003-09.1, analysed by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in ppm	Limit in ppm
(1)	<20	90
(2)	<20	90
(3)	<20	90
(4)	<20	90
(5)	<20	90
(6)	<20	90
(7)	<20	90
(8)	<20	90

ppm = parts per million = mg/kg



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Tested Components:

- (1) Pale pink coating on plastic (bow, ears, blush of sheep teether).
- (2) Brown coating on plastic (ears of all teether).
- (3) Pale purple coating on plastic (feet of sheep teether).
- (4) Dull orange coating on plastic (crest, feet of chick teether).
- (5) Red coating on plastic (beak of chick teether).
- (6) Dull pink coating on plastic (blush of chick teether).
- (7) Light brown coating on plastic (head, body of cow teether).
- (8) Light pink coating on plastic (ears, nose, blush, feet, tail of pig teether).

Date sample received : Dec 07, 2016
Test Period : Dec 07, 2016 to Dec 13, 2016

(7) Phthalate Content Test

Test Method : Standard Operating Procedure for Determining Phthalates, test method CPSC-CH-C1001-09.3 was used and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Six Phthalate content:

Compounds	Result (% w/w)		Limit (% w/w)
	(1/2)	(3/4)	
Dibutyl phthalate (DBP)	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	0.1
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	<0.01	0.1

The above limit was quoted according to US Consumer Product Safety Improvement Act 2008 for prohibition on sale of certain products containing specified phthalates.

Tested Components:

- (1) Pale pink plastic (sheep teether).
- (2) Yellow plastic (chick teether).
- (3) Beige plastic (cow teether).
- (4) Pink plastic (pig teether).

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(8) Phthalate Content Test

Test Method : Standard Operating Procedure for Determining Phthalates, test method CPSC-CH-C1001-09.3 was used and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compounds	Result (% w/w)	
	(1/2)	(3/4)
Dicyclohexyl phthalate (DCHP)	<0.01	<0.01
Diisobutyl phthalate (DIBP)	<0.01	<0.01
Di-n-hexyl phthalate (DNHP) / (DHEXP)	<0.01	<0.01
Di-n-pentyl phthalate (DPP) / (DPENP)	<0.01	<0.01

The above phthalates were quoted from Federal Register, Vol. 79, No. 249, December 30, 2014, Proposed Rules for "Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates".

Tested Components:

- (1) Pale pink plastic (sheep teether).
- (2) Yellow plastic (chick teether).
- (3) Beige plastic (cow teether).
- (4) Pink plastic (pig teether).

Date sample received : Dec 07, 2016

Test Period : Dec 07, 2016 to Dec 12, 2016

End of report

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