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Hong Kong Association for Testing, Inspection and Certification Limited
Hong Kong Toys Council

Test Report

Number: HKGH0198390902

Applicant: NEAT-OH! INTERNATIONAL, LLC
790 FRONTAGE ROAD SUITE 303
NORTHFIELD
IL 60093
USA
Attn: ALEX YIU

Date: Jul 11, 2016

Submitted sample said to be :
Item Name : (1) A2240XX - Thomas & Friends Magnetic Mini Tin - Train Faces
: (2) A2177XX - Neat-Oh! Barbie Jet Hoitel & Decorator Magnets
Quantity : 4 pieces
Labelled Age Group : "3+"
Packaging Provided : Yes
Country of Origin : China



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. CFR Title 16 (CPSC Regulations) - mechanical and physical tests 1500.48 Sharp point 1500.49 Sharp edge	Pass
(6) U.S. CFR Title 16 (CPSC Regulations) - Part 1500.3(c)(6)(vi) - Flammability test on rigid and pliable solids	Pass
(7) 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
(8) U.S. Consumer Product Safety Improvement Act 2008 Title I Section 101 - Total Lead content in non-surface coating materials (substrate)	Pass
(9) U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 108 - Phthalate content	Pass
(10) California Proposition 65 for Toys (designed for or reasonable used by children under six years of age), Consent judgment no. BG-350969 - Phthalate content	Pass
(11) California Proposition 65 for toys, Consent Judgement no. RG-356892 - Lead content	Pass
(12) Illinois Lead Poisoning Prevention Act 410 ILCS 45 - Total Lead content	Pass





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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 Ages Over 3 Years

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 : -

Test	FHSA	Parameter
Compression test	Section 1500.53(g)	30 lbf
Drop Test	Section 1500.53(b)	4 x 3.0 ft
Tension test	Section 1500.53(f)	15 lbf
Torque test	Section 1500.53(e)	4 in-lbf

Clause	Requirement	Assessment
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	NA
4.6.2	Mouth actuated toys	NA
4.6.3	Toys and games for 36 months to 72 months - Small part warning	P
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	P
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	NA
4.23	Rattles	NA
4.24	Squeeze toys	NA
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





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<u>Clause</u>	<u>Requirement</u>	<u>Assessment</u>
4.36	Hemispherical shaped objects	NA
4.37	Yo Yo elastic tether toys	NA
4.38	Magnets	P
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
5	Labeling requirements	P
6	Instructional literature	P
7	Producer's marking	
	- Name of producer / distributor	Yes
	- Address	Yes

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.

Date sample received : Jun 20, 2016
Test Period : Jun 20, 2016 to Jul 07, 2016

(2) Flammability Tests

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

Result: Ignited but self-extinguished before burn rate could be determined.

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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)
	(1)	(2)	(3)	
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)
	(4)	(5)	(6)	
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)
	(7)	(8)	(9)	
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

ppm = parts per million = mg/kg

Tested Components:

- (1) Coatings on metal (box of Thomas & Friends style).
- (2) Paper sheet with plastic film (magnet of both style).
- (3) Paper sheet with plastic film (box of Barbie style).
- (4) Paper card with plastic film (card of Thomas & Friends style).
- (5) Brown paper board (box of Barbie style).



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Tested Components:

- (6) White foam (magnet of Thomas & Friends style).
- (7) Dark grey plastic (magnet of both style).
- (8) Transparent plastic (holder of Barbie style).
- (9) Black plastic (handle of Barbie style).

Date sample received : Jun 20, 2016
 Test Period : Jun 20, 2016 to Jun 24, 2016

(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-E1001-08.1, CPSC-CH-E1002-08.1 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

Substrate:

Tested Component	Result in ppm	Limit in ppm
(2/3/4)	<20	100
(5/6)	<20	100
(7/8)	<20	100
(9)	<20	100

ppm = parts per million = mg/kg

Tested Components:

- (1) Coatings on metal (box of Thomas & Friends style).
- (2) Paper sheet with plastic film (magnet of both style).
- (3) Paper sheet with plastic film (box of Barbie style).
- (4) Paper card with plastic film (card of Thomas & Friends style).
- (5) White foam (magnet of Thomas & Friends style).
- (6) Dark grey plastic (magnet of both style).
- (7) Transparent plastic (holder of Barbie style).
- (8) Black plastic (handle of Barbie style).
- (9) Silver color metal (box of Thomas & Friends style).

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(5) Physical and Mechanical Test

Test Standard : U.S. code of Federal Regulations Title 16 Part 1500.50, the hazards of sharp points, sharp edge and small parts are assessed both before and after applicable use and abuse tests.

Age group for testing : For Ages Over 3 Years

	<u>No. of sample tested</u>	<u>Sharp point (1500.48)</u>	<u>Sharp edge (1500.49)</u>	<u>Small part (1501)</u>
As Received	1	P	NA	NA
Impact (1500.53 (b))	1	P	NA	NA
Flexure (1500.53 (d))	0	NA	NA	NA
Torque (1500.53 (e))	1	P	NA	NA
Tension (1500.53 (f))	1	P	NA	NA
Compression (1500.53 (g))	1	P	NA	NA

Abbreviation : P= Pass NA = Not applicable

Date sample received : Jun 20, 2016
Test Period : Jun 20, 2016 to Jul 07, 2016

(6) Flammability Tests

Test Standard : U.S. Code of Federal Regulations Title 16 Part 1500.44 for rigid and pliable solids.

Result: Ignited but self-extinguished before burn rate could be determined.

Date sample received : Jun 20, 2016
Test Period : Jun 20, 2016 to Jul 07, 2016

(7) 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.

<u>Tested Component</u>	<u>Result in ppm</u>	<u>Limit in ppm</u>
(1)	<20	90

ppm = parts per million = mg/kg

Tested Component: (1) Coatings on metal (box of Thomas & Friends style).

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(8) 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
(1/2/3)	<20	100
(4/5)	<20	100
(6/7)	<20	100
(8)	<20	100

ppm = parts per million = mg/kg

Tested Components:

- (1) Paper sheet with plastic film (magnet of both style).
- (2) Paper sheet with plastic film (box of Barbie style).
- (3) Paper card with plastic film (card of Thomas & Friends style).
- (4) White foam (magnet of Thomas & Friends style).
- (5) Dark grey plastic (magnet of both style).
- (6) Transparent plastic (holder of Barbie style).
- (7) Black plastic (handle of Barbie style).
- (8) Silver color metal (box of Thomas & Friends style).

Date sample received : Jun 20, 2016

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(9) 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)	(5/6)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	<0.01	0.1
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	<0.01	<0.01	0.1

Compounds	Result (%, w/w)	Limit (%, w/w)
	(7/8)	
Dibutyl phthalate (DBP)	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	0.1
Di-n-octyl phthalate (DnOP)	<0.01	0.1
Diisodecyl phthalate (DIDP)	<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) Coatings on metal (box of Thomas & Friends style).
- (2) Paper sheet with plastic film (magnet of both style).
- (3) Paper sheet with plastic film (box of Barbie style).
- (4) Paper card with plastic film (card of Thomas & Friends style).
- (5) White foam (magnet of Thomas & Friends style).
- (6) Dark grey plastic (magnet of both style).
- (7) Transparent plastic (holder of Barbie style).
- (8) Black plastic (handle of Barbie style).

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(10) Phthalate Content Test

Test Method : Solvent extraction and Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compounds	Result (% w/w)			Limit (% w/w)
	(1)	(2/3/4)	(5/6)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	<0.01	<0.01	0.1
Di-n-hexyl phthalate (DNHP)	<0.01	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	<0.01	--

Compounds	Result (% w/w)	Limit (% w/w)
	(7/8)	
Dibutyl phthalate (DBP)	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	0.1
Di-n-hexyl phthalate (DNHP)	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	--

The above limit was quoted from the Consent Judgment no. BG-350969 settled by superior court of the state of California for the county of Alameda, for Toys (designed for or reasonable used by children under six years of age) set based on the California Proposition 65.

Tested Components:

- (1) Coatings on metal (box of Thomas & Friends style).
- (2) Paper sheet with plastic film (magnet of both style).
- (3) Paper sheet with plastic film (box of Barbie style).
- (4) Paper card with plastic film (card of Thomas & Friends style).
- (5) White foam (magnet of Thomas & Friends style).
- (6) Dark grey plastic (magnet of both style).
- (7) Transparent plastic (holder of Barbie style).
- (8) Black plastic (handle of Barbie style).

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(11) Total Lead (Pb) content

Test Method : Acid digestion and analysed by Inductively Coupled Argon Plasma Spectrometry.

Coating:

Tested Component	Result in %, w/w	Limit in %, w/w
(1)	<0.002	0.009

Substrate:

Tested Component	Result in %, w/w	Limit in %, w/w
(2/3/4)	<0.002	0.010
(5/6)	<0.002	0.010
(7/8)	<0.002	0.010
(9)	<0.002	0.010

The above limit was quoted from the Consent Judgement no. RG-356892 settled by Superior Court of the State of California for the County of Alameda, for toys based on the California Proposition 65.

Tested Components:

- (1) Coatings on metal (box of Thomas & Friends style).
- (2) Paper sheet with plastic film (magnet of both style).
- (3) Paper sheet with plastic film (box of Barbie style).
- (4) Paper card with plastic film (card of Thomas & Friends style).
- (5) White foam (magnet of Thomas & Friends style).
- (6) Dark grey plastic (magnet of both style).
- (7) Transparent plastic (holder of Barbie style).
- (8) Black plastic (handle of Barbie style).
- (9) Silver color metal (box of Thomas & Friends style).

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(12) Total Lead (Pb) content

Test Method : Illinois Lead Poisoning Prevention Act 410 ILCS 45, acid digestion method and analysed by Inductively Coupled Argon Plasma Spectrometry.

Coating:

Tested Component	Result in %, w/w	Limit in %, w/w
(1)	<0.002	0.009

Substrate:

Tested Component	Result in %, w/w	Limit in %, w/w
(2/3/4)	<0.002	0.010
(5/6)	<0.002	0.010
(7/8)	<0.002	0.010
(9)	<0.002	0.010

Warning statement limit for coating = 0.004%

Tested Components:

- (1) Coatings on metal (box of Thomas & Friends style).
- (2) Paper sheet with plastic film (magnet of both style).
- (3) Paper sheet with plastic film (box of Barbie style).
- (4) Paper card with plastic film (card of Thomas & Friends style).
- (5) White foam (magnet of Thomas & Friends style).
- (6) Dark grey plastic (magnet of both style).
- (7) Transparent plastic (holder of Barbie style).
- (8) Black plastic (handle of Barbie style).
- (9) Silver color metal (box of Thomas & Friends style).

Date sample received : Jun 20, 2016

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End of report

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