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

Test Report

Number: HKGH0206686802

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

Date: Mar 13, 2017

Submitted sample said to be :
Item Name : (1) Zipes™ Speed Pipes - Performance Pack
: (2) Zipes™ Speed Pipes - Duel Barrel Racing Pack
: (3) Zipes™ Speed Pipes - Vehicle & Remote Accessory Set
: (4) Zipes™ Speed Pipes - Totally Tubular Expansion Pack
Item No. : (1) A2280XX
: (2) A2281XX
: (3) A2282XX
: (4) A2283XX
Quantity : 3 sets
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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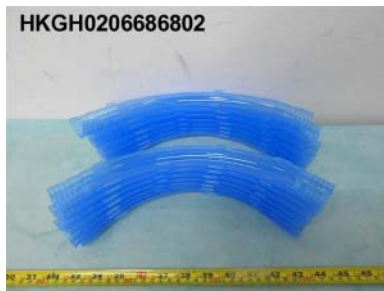
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Test Report

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Test Report

Number: HKGH0206686802

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 - Total Lead content	Pass
(4) ASTM F963-11 - Soluble heavy elements test	Pass
(5) U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 108 - Phthalate content	Pass
(6) U.S. CFR Title 16 (CPSC Regulations) - mechanical and physical tests 1500.48 Sharp point 1500.49 Sharp edge	Pass
(7) U.S. CFR Title 16 (CPSC Regulations) - Part 1500.3(c)(6)(vi) - Flammability test on rigid and pliable solids	Pass
(8) 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. 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
(9) Consumer Product Safety Improvement Act (CPSIA) 2008 Section 103 - Tracking labels for children products	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





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Test Report

Number: HKGH0206686802

<u>Requirement</u>	<u>Result</u>
(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
(13) Section 4.25, 5.15 & 6.5 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-16.	Pass (Subjected to remark enclosed)
(14) Model Toxics in Packaging Legislation (packaging materials) - Toxic elements test	Pass
(15) U.S. Public Law No.104 - 142, 13 May 1996 Mercury Containing and Rechargeable Battery Management Act - Mercury (Hg) Content	Pass



Test Report

Number: HKGH0206686802

(1) Physical and Mechanical Tests

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

Age group for testing : For Ages over 5 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	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	P
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	P
4.18	Holes, clearance, and accessibility of mechanisms	P
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	P
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	P
4.35	Pompoms	NA
4.36	Hemispherical shaped objects	NA





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Test Report

Number: HKGH0206686802

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	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 : Dec 20, 2016 and Jan 06, 2017

Test Period : Dec 20, 2016 to Jan 09, 2017

(2) Flammability Test

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

<u>Sample</u>	<u>Ignition point</u>	<u>Burn length (inch)</u>	<u>Time (sec)</u>	<u>Burn Rate (inch/sec)</u>	<u>Limit (inch/sec)</u>
Curved Pipe	Edge	2.5	60	0.04	0.10

The submitted toy sample and its accessories were tested, the above result only showed the most severe burn rate of the samples.

Date sample received : Dec 20, 2016

Test Period : Dec 20, 2016 to Jan 09, 2017



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 Hong Kong Toys Council

Test Report

Number: HKGH0206686802

(3) 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
(28)	<20	90

Substrate:

Tested Component	Result in ppm	Limit in ppm
(3)	<20	100
(4/5/6)	<20	100
(7/8/9)	<20	100
(10/11/12)	<20	100
(13/14/15)	<20	100
(16/17/18)	<20	100
(19/20/21)	<20	100
(22/23/24)	<20	100
(25)	<20	100
(26)	<20	100
(27)	<20	100
(29)	<20	100

ppm = parts per million = mg/kg



Test Report

Number: HKGH0206686802

Tested Components:

- (1) White coating on plastic (on/ off pattern of all cars, controller).
- (2) Coatings on paper label (sticker).
- (3) Paper label excluding coatings (sticker).
- (4) Transparent plastic (body of all cars).
- (5) Transparent yellow plastic (body of car).
- (6) Transparent green plastic (body of car).
- (7) Transparent blue plastic (body of car).
- (8) Dim blue plastic (frame of wheel of car).
- (9) Dull blue plastic (wheel of car).
- (10) Bright black plastic (tires of car).
- (11) Shiny white plastic (wheel of car).
- (12) Dark blue plastic (body of controller).
- (13) Transparent red plastic (LED of controller).
- (14) Transparent plastic (LED of controller).
- (15) Shiny bright transparent plastic (ball).
- (16) Bright transparent plastic (pipe).
- (17) Shiny transparent plastic (connector of pipe).
- (18) Transparent deep blue plastic (pipe).
- (19) Transparent dull blue plastic (pipe).
- (20) White plastic (pin holder of USB plug).
- (21) Black plastic (plug).
- (22) Dim black plastic (holder).
- (23) Dull black plastic (cable).
- (24) Off white plastic (pin holder of micro USB plug).
- (25) Silver color metal (axle of pipe).
- (26) Silver color metal (axle of car).
- (27) Silver color metal (USB plug).
- (28) Black coating on plastic (logo, pattern of all cars, controller).
- (29) Transparent red plastic (body of car, controller).

Date sample received : Dec 20, 2016 and Jan 24, 2017

Test Period : Dec 20, 2016 to Jan 25, 2017



Test Report

Number: HKGH0206686802

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





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Test Report

Number: HKGH0206686802

	Result (ppm)			Limit (ppm)
	(11)	(12)	(13)	
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)
	(14)	(15)	(16)	
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)
	(17)	(18)	(19)	
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)
	(20)	(21)	(22)	
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



Test Report

Number: HKGH0206686802

	Result (ppm)			Limit (ppm)
	(23)	(24)	(25)	
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

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

Tested Components:

- (1) @ White coating on plastic (on/ off pattern of all cars, controller).
- (2) Coatings on paper label (sticker).
- (3) Transparent plastic (body of all cars).
- (4) Transparent yellow plastic (body of car).
- (5) Transparent green plastic (body of car).
- (6) Transparent blue plastic (body of car).
- (7) Dim blue plastic (frame of wheel of car).
- (8) Dull blue plastic (wheel of car).
- (9) Bright black plastic (tires of car).
- (10) Shiny white plastic (wheel of car).
- (11) Dark blue plastic (body of controller).
- (12) Transparent red plastic (LED of controller).
- (13) Transparent plastic (LED of controller).
- (14) Shiny bright transparent plastic (ball).
- (15) Bright transparent plastic (pipe).
- (16) Shiny transparent plastic (connector of pipe).
- (17) Transparent deep blue plastic (pipe).
- (18) Transparent dull blue plastic (pipe).
- (19) White plastic (pin holder of USB plug).
- (20) Black plastic (plug).
- (21) Dim black plastic (holder).
- (22) Dull black plastic (cable).
- (23) Off white plastic (pin holder of micro USB plug).
- (24) Black coating on plastic (logo, pattern of all cars, controller).
- (25) Transparent red plastic (body of car, controller).

Date sample received : Dec 20, 2016 and Jan 24, 2017

Test Period : Dec 20, 2016 to Jan 25, 2017



Test Report

Number: HKGH0206686802

(5) 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)	
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)
	(6/7/8)	(9/10/11)	(12/13/14)	
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)
	(15/16/17)	(18/19/20)	(21/22/23)	
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



Test Report

Number: HKGH0206686802

Compounds	Result (% w/w)		Limit (% w/w)
	(24)	(25)	
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) Coatings on sample (on/ off pattern of all cars, controller, sticker).
- (2) Paper label excluding coatings (sticker).
- (3) Transparent plastic (body of all cars).
- (4) Transparent yellow plastic (body of car).
- (5) Transparent green plastic (body of car).
- (6) Transparent blue plastic (body of car).
- (7) Dim blue plastic (frame of wheel of car).
- (8) Dull blue plastic (wheel of car).
- (9) Bright black plastic (tires of car).
- (10) Shiny white plastic (wheel of car).
- (11) Dark blue plastic (body of controller).
- (12) Transparent red plastic (LED of controller).
- (13) Transparent plastic (LED of controller).
- (14) Shiny bright transparent plastic (ball).
- (15) Bright transparent plastic (pipe).
- (16) Shiny transparent plastic (connector of pipe).
- (17) Transparent deep blue plastic (pipe).
- (18) Transparent dull blue plastic (pipe).
- (19) White plastic (pin holder of USB plug).
- (20) Black plastic (plug).
- (21) Dim black plastic (holder).
- (22) Dull black plastic (cable).
- (23) Off white plastic (pin holder of micro USB plug).
- (24) Black coating on plastic (logo, pattern of all cars, controller).
- (25) Transparent red plastic (body of car, controller).

Date sample received : Dec 20, 2016 and Jan 24, 2017

Test Period : Dec 20, 2016 to Jan 25, 2017





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(6) 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 5 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	P	NA
Impact	1	P	P	NA
(1500.53 (b)) Flexure	0	NA	NA	NA
(1500.53 (d)) Torque	1	P	P	NA
(1500.53 (e)) Tension	1	P	P	NA
(1500.53 (f)) Compression	1	P	P	NA
(1500.53 (g))				

Abbreviation : P= Pass NA = Not applicable

Date sample received : Dec 20, 2016
Test Period : Dec 20, 2016 to Jan 09, 2017

(7) Flammability Test

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

<u>Sample</u>	<u>Ignition point</u>	<u>Burn length (inch)</u>	<u>Time (sec)</u>	<u>Burn Rate (inch/sec)</u>	<u>Limit (inch/sec)</u>
Curved Pipe	Edge	2.5	60	0.04	0.10

The submitted sample and its accessories were tested, the above result only showed the most severe burn rate of the samples.

Date sample received : Dec 20, 2016
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Test Report

Number: HKGH0206686802

(8) 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

ppm = parts per million = mg/kg

Tested Components:

- (1) White coating on plastic (on/ off pattern of all cars, controller).
- (2) Coatings on paper label (sticker).
- (3) Black coating on plastic (logo, pattern of all cars, controller).

Date sample received : Dec 20, 2016 and Jan 24, 2017

Test Period : Dec 20, 2016 to Jan 25, 2017



Test Report

Number: HKGH0206686802

(9) Tracking Label Assessment

Test Standard : Consumer Product Safety Improvement Act (CPSIA) 2008 Section 103 tracking labels for children products.

Tracking label found on the packaging:

Neat-Oh!
 Shenzhen, China
 161220

Tracking label found on the remote control of the product.

Neat-Oh!
 Shenzhen, China
 161220

Note: The tracking label assessment was based on the submitted sample and the information provided by the applicant. There was no verification on the validity of such information.

Date sample received : Dec 20, 2016 and Jan 06, 2017

Test Period : Dec 20, 2016 to Jan 09, 2017

(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)	
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)
	(6/7/8)	(9/10/11)	(12/13/14)	
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	--





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Test Report

Number: HKGH0206686802

Compounds	Result (% w/w)			Limit (% w/w)
	(15/16/17)	(18/19/20)	(21/22/23)	
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)
	(24)	(25)	
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
Diisodecyl phthalate (DIDP)	<0.01	<0.01	0.1
Di-n-hexyl phthalate (DNHP)	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<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.





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Hong Kong Toys Council

Test Report

Number: HKGH0206686802

Tested Components:

- (1) Coatings on sample (on/ off pattern of all cars, controller, sticker).
- (2) Paper label excluding coatings (sticker).
- (3) Transparent plastic (body of all cars).
- (4) Transparent yellow plastic (body of car).
- (5) Transparent green plastic (body of car).
- (6) Transparent blue plastic (body of car).
- (7) Dim blue plastic (frame of wheel of car).
- (8) Dull blue plastic (wheel of car).
- (9) Bright black plastic (tires of car).
- (10) Shiny white plastic (wheel of car).
- (11) Dark blue plastic (body of controller).
- (12) Transparent red plastic (LED of controller).
- (13) Transparent plastic (LED of controller).
- (14) Shiny bright transparent plastic (ball).
- (15) Bright transparent plastic (pipe).
- (16) Shiny transparent plastic (connector of pipe).
- (17) Transparent deep blue plastic (pipe).
- (18) Transparent dull blue plastic (pipe).
- (19) White plastic (pin holder of USB plug).
- (20) Black plastic (plug).
- (21) Dim black plastic (holder).
- (22) Dull black plastic (cable).
- (23) Off white plastic (pin holder of micro USB plug).
- (24) Black coating on plastic (logo, pattern of all cars, controller).
- (25) Transparent red plastic (body of car, controller).

Date sample received : Dec 20, 2016 and Jan 24, 2017

Test Period : Dec 20, 2016 to Jan 25, 2017





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Test Report

Number: HKGH0206686802

(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
(2)	<0.002	0.009
(28)	<0.002	0.009

Substrate:

Tested Component	Result in %, w/w	Limit in %, w/w
(3)	<0.002	0.010
(4/5/6)	<0.002	0.010
(7/8/9)	<0.002	0.010
(10/11/12)	<0.002	0.010
(13/14/15)	<0.002	0.010
(16/17/18)	<0.002	0.010
(19/20/21)	<0.002	0.010
(22/23/24)	<0.002	0.010
(25)	<0.002	0.010
(26)	<0.002	0.010
(27)	<0.002	0.010
(29)	<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.



Test Report

Number: HKGH0206686802

Tested Components:

- (1) White coating on plastic (on/ off pattern of all cars, controller).
- (2) Coatings on paper label (sticker).
- (3) Paper label excluding coatings (sticker).
- (4) Transparent plastic (body of all cars).
- (5) Transparent yellow plastic (body of car).
- (6) Transparent green plastic (body of car).
- (7) Transparent blue plastic (body of car).
- (8) Dim blue plastic (frame of wheel of car).
- (9) Dull blue plastic (wheel of car).
- (10) Bright black plastic (tires of car).
- (11) Shiny white plastic (wheel of car).
- (12) Dark blue plastic (body of controller).
- (13) Transparent red plastic (LED of controller).
- (14) Transparent plastic (LED of controller).
- (15) Shiny bright transparent plastic (ball).
- (16) Bright transparent plastic (pipe).
- (17) Shiny transparent plastic (connector of pipe).
- (18) Transparent deep blue plastic (pipe).
- (19) Transparent dull blue plastic (pipe).
- (20) White plastic (pin holder of USB plug).
- (21) Black plastic (plug).
- (22) Dim black plastic (holder).
- (23) Dull black plastic (cable).
- (24) Off white plastic (pin holder of micro USB plug).
- (25) Silver color metal (axle of pipe).
- (26) Silver color metal (axle of car).
- (27) Silver color metal (USB plug).
- (28) Black coating on plastic (logo, pattern of all cars, controller).
- (29) Transparent red plastic (body of car, controller).

Date sample received : Dec 20, 2016 and Jan 24, 2017

Test Period : Dec 20, 2016 to Jan 25, 2017





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Test Report

Number: HKGH0206686802

(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
(2)	<0.002	0.009
(28)	<0.002	0.009

Substrate:

Tested Component	Result in %, w/w	Limit in %, w/w
(3)	<0.002	0.010
(4/5/6)	<0.002	0.010
(7/8/9)	<0.002	0.010
(10/11/12)	<0.002	0.010
(13/14/15)	<0.002	0.010
(16/17/18)	<0.002	0.010
(19/20/21)	<0.002	0.010
(22/23/24)	<0.002	0.010
(25)	<0.002	0.010
(26)	<0.002	0.010
(27)	<0.002	0.010
(29)	<0.002	0.010

Warning statement limit for coating = 0.004%



Test Report

Number: HKGH0206686802

Tested Components:

- (1) White coating on plastic (on/ off pattern of all cars, controller).
- (2) Coatings on paper label (sticker).
- (3) Paper label excluding coatings (sticker).
- (4) Transparent plastic (body of all cars).
- (5) Transparent yellow plastic (body of car).
- (6) Transparent green plastic (body of car).
- (7) Transparent blue plastic (body of car).
- (8) Dim blue plastic (frame of wheel of car).
- (9) Dull blue plastic (wheel of car).
- (10) Bright black plastic (tires of car).
- (11) Shiny white plastic (wheel of car).
- (12) Dark blue plastic (body of controller).
- (13) Transparent red plastic (LED of controller).
- (14) Transparent plastic (LED of controller).
- (15) Shiny bright transparent plastic (ball).
- (16) Bright transparent plastic (pipe).
- (17) Shiny transparent plastic (connector of pipe).
- (18) Transparent deep blue plastic (pipe).
- (19) Transparent dull blue plastic (pipe).
- (20) White plastic (pin holder of USB plug).
- (21) Black plastic (plug).
- (22) Dim black plastic (holder).
- (23) Dull black plastic (cable).
- (24) Off white plastic (pin holder of micro USB plug).
- (25) Silver color metal (axle of pipe).
- (26) Silver color metal (axle of car).
- (27) Silver color metal (USB plug).
- (28) Black coating on plastic (logo, pattern of all cars, controller).
- (29) Transparent red plastic (body of car, controller).

Date sample received : Dec 20, 2016 and Jan 24, 2017

Test Period : Dec 20, 2016 to Jan 25, 2017





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Test Report

Number: HKGH0206686802

(13) Battery-Operated Toys

Test Standard : Section 4.25, 5.15 & 6.5 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-16.

Age group for testing : Ages over 5 years

Power Source : Remote: 3V, LR6 size x 2 pcs,
: Car : 3.7V, 250mAh, Li-ion rechargeable battery x 1 pc (Non-Replaceable) charged by USB 5VDC.

Section	Testing items	Assessment
4..25	Battery operated toys	P
4.25.1	Battery information marking in battery compartment	P
4.25.1.1	Label for non-replaceable batteries	NA
4.25.2	Nominal voltage between 2 accessible points not exceed 24VDC	P
4.25.3	Designed to prevent charge any non-rechargeable battery exempted button cell.	NA
4.25.4	Toy intended for children less than 3 years old, all batteries not be accessed before or after foreseeable abuse testing	NA
4.25.5	Small batteries not be accessed before or after foreseeable abuse testing	NA
4.25.6	Isolation of batteries of different types or capacities	NA
4.25.7	Temperature on battery surface not exceeding 71°C	P
4.25.7.1	- Battery operated toys during normal use conditions.	P
4.25.7.2	- Lock external moving parts of the toy	P
4.25.8	Not condition occurred hat cause battery overheat or present a combustion hazard	P
4.5.2.8.1	Temperature on rechargeable lithium batteries during normal use charging and any discharging of the battery.	P
4.25.9	Instruction requirement in section 6.5	P
4.25.10	Battery-powered ride on toys	NA
4.25.11	Contain secondary cells or secondary batteries	P
4.25.11.1	Lithium ion / ion polymer cells comply with standard ANSI C18.2M Part 2 or UL 1642 or IEC 62133	P #1
4.25.11.2	Lithium ion / ion polymer batteries comply with standard ANSI C18.2M Part 2 or UL 2054 or IEC 62133	P #2
4.25.11.3	Lithium ion or lithium ion polymer cells enclosure against damage after foreseeable abuse of the toys	P



Test Report

Number: HKGH0206686802

Section	Testing items	Assessment
4.25.11.4	During charging with the provided charging device when tested in accordance with 8.19.1, 8.19.2, and 8.19.3:	P
	-No cell exceed the cell or battery manufacturer's specified charging voltage	P
	-No cell exceed the cell or battery manufacturer's specified current	P
	- No cell exceed the cell or battery manufacturer's specified temperature values	P
4.25.11.4.(1)	For batteries charged outside of the toy, either met (a) or (b)	NA
	(a) Charging system compliant with UL2054 or IEC 60950-1, Or	NA
	(b) Battery is tested with 8.19.1, 8.19.2, 8.19.3, and 8.19.4	NA
4.25.11.5	During discharge with the provided load when tested in accordance with 8.19.1, 8.19.2, 8.19.3, and 8.19.4, Any cell's maximum discharge current not exceed	P
	- the cell manufacturer's specifications during normal operation.	P
	- the cell manufacturer's specifications during normal operation stalled motor	P
	Lithium ion or lithium ion polymer cell(s) cutoff voltage not less than the manufacturer's specified minimum in any operating mode.	P
4.25.11.6	Temperature rises on any battery surfaces or any other accessible surface of the toy when tested in accordance with 8.19.1, 8.19.2 and 8.19.3 under	P
	- Normal use charging	P
	- Discharging	P
4..25.11.7	Plug into electric mains power battery chargers or power adaptors listed by a Nationally Recognized Test Laboratory (NRTL)	NA
4.25.11.8	Circuit connected to lithium ion or lithium ion polymer and NiMH secondary batteries:	P
	(1)shall be short circuit protected and when tested in accordance with 8.19.5	P
	- Any accessible and inaccessible secondary battery surface not exceed limit	P
	- Cells not cause battery explosion, burning or charring the combustible material	P
	- No access the electrolyte	P
	- Not cause short circuit on a flat conductive surface	P
	- Short circuit protection must be incorporated into Lithium ion or lithium ion polymer batteries	P



Test Report

Number: HKGH0206686802

Section	Testing items	Assessment
5.15	Instruction for non-replaceable batteries	NA
5.15.2	Instruction for button or coin cell batteries	NA
6.5	Instruction on safe battery usage	P
8.19	Test for toys that contain secondary cells or batteries	C
8.19.1	Pre condition test	C
8.19.2	Battery overcharge test for 336 hours	C
8.19.3	Repetitive 10 cycles overcharge Test	C
8.19.4	Single fault charging test to have maximum voltage to charge battery for 7 hours	NA
8.19.5	Short circuit protection test	C
8.19.5.1	Place removable battery on a flat conduct surface	NA
8.19.5.2	Short circuit on a lithium battery terminals	C
8.19.5.3	Toy uses NiMH batteries testing to either 8.19.5.3(1) or 8.19.5.3(2)	NA
8.19.5.3(1)	Met simulate fault conditions on electronic components or	NA
8.19.5.3(2)	Met alternative test for toy with PTC	NA

Abbreviation : P = Pass NA = Not applicable C =Conducted

Remarks:

#1 = The following reports was received from applicant.

For rechargeable Cell: Document No. 50041146001

#2 = The following reports was received from applicant.

For rechargeable battery : Document No. 50041146001



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Test Report

Number: HKGH0206686802



Date sample received : Dec 20, 2016
Testing period : Dec 21, 2016 to Jan 18, 2017



Test Report

Number: HKGH0206686802

(14) Toxic Elements Analysis

Test Method : Model Toxics in Packaging Legislation requirement of packaging and packaging components, acid digestion method was used and toxic elements contents were determined by Inductively Coupled Argon Plasma Spectrometry, and Hexavalent Chromium content was determined by UV-Visible Spectrophotometry.

	Result (ppm)			Limit (ppm)
	(1)	(2/3)	(4/5)	
Total Lead (Pb)	<5	<5	<5	--
Total Cadmium (Cd)	<5	<5	<5	--
Total Mercury (Hg)	<5	<5	<5	--
Chromium VI (Cr (VI))	<1	<1	<1	--
Sum of Pb, Cd, Hg and Cr (VI)	<16	<16	<16	100

	Result (ppm)			Limit (ppm)
	(6/7)	(8)	(9/10)	
Total Lead (Pb)	<5	<5	<5	--
Total Cadmium (Cd)	<5	<5	<5	--
Total Mercury (Hg)	<5	<5	<5	--
Chromium VI (Cr (VI))	<1	<1	<1	--
Sum of Pb, Cd, Hg and Cr (VI)	<16	<16	<16	100

ppm = parts per million = mg/kg

Tested Components:

- (1) Coatings (black, white) on paper label (sticker) (packaging).
- (2) White paper label excluding (black, white) coatings (sticker) (packaging).
- (3) Beige paper sheet (back of sticker) (packaging).
- (4) Transparent plastic with adhesive (bag) (packaging).
- (5) Transparent plastic (bag) (packaging).
- (6) Transparent yellow plastic (bag) (packaging).
- (7) Transparent plastic adhesive tape (adhesive tape of bag) (packaging).
- (8) Coatings on paper board (body of box) (packaging).
- (9) White/ brown paper board excluding coatings (body of box) (packaging).
- (10) Pale brown paper board excluding (tray) (packaging).

Date sample received : Dec 20, 2016 and Jan 24, 2017

Test Period : Dec 20, 2016 to Jan 25, 2017





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Test Report

Number: HKGH0206686802

(15) Mercury (Hg) Content

Test Standard : EPA/SW-846 by Atomic Absorption Spectrophotometric Analysis/Inductively Coupled Plasma (ICP) analysis.

Tested Component	Result
(1)	Not detected

Limit : No Mercury intentionally added

Remark : Detection Limit = 0.0001% (w/w)

Tested Component :

(1) Battery (PL-502030-3.7V-250mAh).

Date sample received : Dec 20, 2016

Testing period : Dec 20, 2016 to Jan 17, 2017

End of report

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