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Members of :
American National Standards Institute
American Society for Testing and Materials
British Standards Institute
Hong Kong Association for Testing, Inspection and Certification Limited
Hong Kong Toys Council

Test Report Number: HKGH0210181101

Applicant: TM TOYS SP Z O O
UL ZBOZOWA 4
70-653 SZCZECIN
POLAND

Date: May 05, 2017

Attn: DANIEL POON

Submitted sample said to be	:	
Item Name	:	**Inflatable Racing Car**
Ref. No.	:	**DKJ0523**
Quantity	:	Four sets
Labelled Age Group	:	Not specified
Packaging Provided	:	No
Supplier	:	Welfun Group Limited
Buyer	:	TM Toys Sp. z o.o.
Country of Origin	:	China

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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 :

	Requirement	Result
(1)	EN71-3 : 2013 + A1:2014 - Migration of certain elements	Pass
(2)	REACH Regulation (EC) No.1907/2006 , Annex XVII Item 23 & amendment No. 2016/217 - Cadmium content requirement	Pass
(3)	94/62/EC and amendment 2013/2/EU & Directive (EU) 2015/720 Directive (packaging waste) - Toxic elements test	Pass
(4)	REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52 & amendment no. 552/2009 - Phthalates content	Pass
(5)	REACH Regulation (EC) no. 1907/2006 & amendment (EU) no. 1272/2013 Annex XVII Item 50 - Polycyclic aromatic hydrocarbons content	Pass

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

Angel Y.F. Cheung
Vice President

Intertek Testing Services Hong Kong Ltd.
2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong.
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(1) 19 Toxic Element Migration Test

Test Standard : EN71-3:2013 + A1:2014

Category (III): Scraped-off toy material:

	Result (mg/kg)			Limit
	(1)	(2)	(3)	(mg/kg)
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	27	<10	100	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III) ++	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI) ++	<0.1	<0.1	<0.1	0.2
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	160
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	130	<100	<100	46000

	Result (mg/kg)			Limit
	(4)	(5)	(6)	(mg/kg)
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
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Soluble Nickel (Ni)	<10	<10	<10	930
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Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

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mg/kg = milligram per kilogram

++ : Unless the test results were marked with "^" or "Δ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.

Organic tin test result was expressed as tributyl tin.

Tested Components:

(1) Coatings (black, white, yellow) on plastic sheet (body of car).
(2) Red coating on plastic sheet (exhaust pipe of car).
(3) Grey coating on plastic sheet (wheels of car).
(4) Black plastic sheet (body, exhaust pipe, wheels, steering wheel of car).
(5) Red plastic sheet (body of car).
(6) Translucent plastic (valve).

Date sample received : Mar 23, 2017
Test Period : Mar 23, 2017 to Mar 28, 2017

(2) Cadmium (Cd) Content

Test Method : Acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in %, w/w	Limit in %, w/w
(1)	ND	0.1
(2/3/4)	ND	0.01

ND : Not detected (< 0.0005%)

Tested Components:

(1) Coatings on plastic sheet (body, exhaust pipe, wheels of car).
(2) Black plastic sheet (body, exhaust pipe, wheels, steering wheel of car).
(3) Red plastic sheet (body of car).
(4) Translucent plastic (valve).

Date sample received : Mar 23, 2017
Test Period : Mar 23, 2017 to Mar 28, 2017

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(3) Toxic Elements Analysis

Test Method : 94/62/EC and amendment 2013/2/EU & Directive (EU) 2015/720 Directive on packaging and packaging waste, 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)	
Total Lead (Pb)	<5	--
Total Cadmium (Cd)	<5	--
Total Mercury (Hg)	<5	--
Chromium VI (Cr (VI))	<1	--
Sum of Lead, Cadmium, Mercury and Chromium Cr (VI)	<16	100

ppm = parts per million = mg/kg

Tested Components:

(1) Translucent plastic sheet with black coating (bag) (packaging).
(2) Transparent adhesive plastic tape (packaging).

Date sample received : Mar 23, 2017
Test Period : Mar 23, 2017 to Mar 28, 2017

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(4) Phthalate Content Test

Test Method : EN14372, 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	--
Diethyl hexyl phthalate (DEHP)	0.01	<0.01	--
Benzyl butyl phthalate (BBP)	0.01	<0.01	--
Sum of DBP,DEHP & BBP	0.02	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	--
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	--
Diisodecyl phthalate (DIDP)	<0.01	<0.01	--
Sum of DINP,DnOP & DIDP	<0.01	<0.01	0.1

The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) no. 1907/2006 & amendment no. 552/2009 for phthalate content in toys and childcare articles.

Tested Components:

(1) Coatings on plastic sheet (body, exhaust pipe, wheels of car).
(2) Black plastic sheet (body, exhaust pipe, wheels, steering wheel of car).
(3) Red plastic sheet (body of car).
(4) Translucent plastic (valve).

Date sample received : Mar 23, 2017
Test Period : Mar 23, 2017 to Mar 28, 2017

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(5) Polycyclic Aromatic Hydrocarbons (PAH) Content

Test Method : Solvent extraction and determined by Gas Chromatographic - Mass Spectrometry (GC/MS).

Compound	Result (ppm)		Limit (ppm)
	(1)	(2/3/4)	
Benzo(a)pyrene	<0.10	<0.10	0.5
Benzo(e)pyrene	<0.10	<0.10	0.5
Benzo(a)anthracene	<0.10	<0.10	0.5
Chrysene	<0.10	<0.10	0.5
Benzo(b)fluoranthene	<0.10	<0.10	0.5
Benzo(j)fluoranthene	<0.10	<0.10	0.5
Benzo(k)fluoranthene	<0.10	<0.10	0.5
Dibenzo(a,h)anthracene	<0.10	<0.10	0.5

The above limit was quoted according to Annex XVII Items 50 of the REACH Regulation (EC) no. 1907/2006 & amendment (EU) no. 1272/2013 for polycyclic aromatic hydrocarbons (PAH).

ppm = parts per million = mg/kg

Tested Components:

(1) Coatings on plastic sheet (body, exhaust pipe, wheels of car).
(2) Black plastic sheet (body, exhaust pipe, wheels, steering wheel of car).
(3) Red plastic sheet (body of car).
(4) Translucent plastic (valve).

Date sample received : Mar 23, 2017
Test Period : Mar 23, 2017 to Mar 29, 2017

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End of report

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