



Oct 23, 2019

Date:

Test Report

Applicant: MAY CHEONG TOY PRODUCTS FTY., LTD UNIT 901-2, 9/F., EAST OCEAN CENTRE, 98 GRANVILLE ROAD, TSIMSHATSUI EAST, KOWLOON, HONG KONG

> **ICY HUANG** Attn:

Sample Description:

Five (5) styles of submitted sample said to be :

No.	ltem		Description	Color
1	31133		1:24 2015 Corvette Z06	Yellow
2	31231		2003 HUMMER H2 SUV	Yellow
3	31246		1:24 BMW M4 GTS	Orange
4	31354		Design Outlaws ~ 1:24 1929 Ford Model A	Yellow
5	31513		1:24 Audi R8 V10 Plus	Metallic Grey
Labelled Age C Applicant Spec Grading for Te Packaging Pro Applicant Country of Orig	tified Age sting vided by	: (:)	3+/8+" Over 3 years ⁄es China	
			, iiiia *********************************	***********

Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

To be continued



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广州经济技术开发区科学城彩频路 7 号之二 E 栋。广州市高新技术开发区科 学城光谱西路 69 号 TCL 文化产业园汇创空间 111 室。(邮编: 510663)







Conclusion:		
Tested sample Submitted sample(s)	<u>Standard</u> EN71-1:2014+A1:2018 for mechanical and physical properties	<u>Result</u> Pass
	EN71-2:2011+A1:2014 Flammability test	Pass
Tested component(s) of submitted sample(s)	EN71-3:2013+A3:2018 on migration of certain elements	Pass
	EN71-3:2013+A3:2018 on migration of certain elements & EU 2018/725 amending 2009/48/EC (effective from Nov 18,2019) for chromium (VI) migration	Pass
	EN71-3:2019 on migration of certain elements	Pass
	Cadmium content requirement in REACH regulation Annex XVII Item 23 (EC) No 1907/2006 and amendment No. 552/2009, 494/2011, 835/2012 and 2016/217	Pass
	Phthalates content requirement in Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & (EU) 2018/2005. [(EU) 2018/2005 is applicable to products including toys and childcare articles placed on the market after 7 July 2020]	Pass
	<u>Test Item</u> Phthalates Content	See Test Conducted 7#
******	<u>Standard</u> Polycyclic Aromatic Hydrocarbons (PAHs) Content Requiremen In Annex XVII Item 50 of the REACH Regulation (EC) NO. 1907/2006 & Amendment No. 552/2009 and 1272/2013 with effect from 27 December 2015	Pass
# . This tost in the report is not	included in the CNAS appreditation appendiate for our laboratory	
# . This lest in the report is not	included in the CNAS accreditation schedule for our laboratory.	

#:

Approved:

Parco Leung

Technical Supervisor

Approved:

Z 6 PM

Jimly Lin Sr. Technical Support



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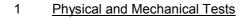
广州经济技术开发区科学城彩频路 7 号之二 E 栋。广州市高新技术开发区科 学城光谱西路 69 号 TCL 文化产业园汇创空间 111 室。(邮编: 510663)







Tests Conducted



As per European Standard on Safety of toys EN71-1:2014+A1:2018

Clause	Testing Items	Assessment
4	General requirements	<u> </u>
4.1	Material	Р
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	Р
4.8	Points and metallic wires	Р
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectile toys	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy disguise costumes	NA
4.27	Flying toys	NA
5	Toys intended for children under 36 months	<u>.</u>
5.1	General requirements	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA



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 Block E, No.7-2 Caipin Road, Guangzhou Science City, GETDD, Guangzhou. \ 111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Science City, New & Hightech Development District, Guangzhou.







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Test Report

Tests Conducted

<u>Clause</u>	Testing Items	Assessment
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15	Sledges with cords for pulling	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	Р
7.2	Toys not intended for children under 36 months	P/#
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectile toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inlineskates and skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic/electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	NA

Remark: P = Pass NA = Not Applicable

= Age warning statement, graphical symbol and the indication of hazard was found on the packaging. *****



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Remark: Additional information according to the Toy Safety Directives 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements:

1. Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and the CE-marking shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompany the toy. In addition, manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

- Manufacturer's name was on the packaging and toy.
- Manufacturer's address was on the packaging.
- Importer's name was on the packaging and toy.
- Importer's address was on the packaging.
- Product identification code was on the packaging.
- the CE-marking was on packaging and was in a correct format.

Date sample received : Sep 17, 2019 Testing period : Sep 17, 2019 to Sep 20, 2019

2 Flammability Test

As per European Standard on Safety of Toys EN71-2:2011+A1:2014

Clause	Testing Items	Assessment
4.1	General	Р
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Remark: P = Pass NA = Not Applicable

Date sample received : Sep 17, 2019 Testing period : Sep 17, 2019 to Sep 20, 2019



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广州经济技术开发区科学城彩频路 7 号之二 E 栋。广州市高新技术开发区科 学城光谱西路 69 号 TCL 文化产业园汇创空间 111 室。(邮编: 510663)





Tests Conducted

3 19 Toxic Element Migration Test

(A) Test Result

As per EN71-3:2013+A3:2018 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Ion Chromatography with UV-VIS.

Category (III): Scraped-off toy material

		Re	Reporting				
<u>Element</u>		Test	Limit	<u>Limit</u> (mg/kg)			
	(3)	(6)	(9)	(12)	(13)	<u>(mg/kg)</u>	<u>(mg/ng/</u>
Aluminium (AI)	ND	4307	975	506	340	300	70000
Antimony (Sb)	ND	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) **	ND	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI) **	ND [#]	ND [#]	ND [#]	ND [#]	ND [#]	0.025	0.2/0.053©
Cobalt (Co)	ND	ND	ND	ND	ND	10	130
Copper (Cu)	18	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	ND	2.5	180000
Organic tin ⁺⁺	ND	ND	ND	ND	ND	2.0	12
Zinc (Zn)	ND	7257	6458	795	146	100	46000



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广州经济技术开发区科学城彩频路 7 号之二 E 栋。广州市高新技术开发区科 学城光谱西路 69 号 TCL 文化产业园汇创空间 111 室。(邮编: 510663)

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Tests Conducted



Number:

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		<u>Result</u>	Reporting	<u>Limit</u> (mg/kg)		
<u>Element</u>		Tested Co	Limit			
	<u>(14)</u>	<u>(18)</u>	(20)	(22)	<u>(mg/kg)</u>	<u>(mg/kg/</u>
Aluminium (Al)	2113	ND	1929	7545	300	70000
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) **	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI) **	ND [#]	ND [#]	ND [#]	ND [#]	0.025	0.2/0.053©
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	2.5	180000
Organic tin **	ND	ND	ND	ND	2.0	12
Zinc (Zn)	7736	ND	7475	6909	100	46000

		Result (m	Reporting			
Element		Tested Com	Limit	<u>Limit</u> (mg/kg)		
	(23)to(27) (28)to(3		(35)	(36)	<u>(mg/kg)</u>	<u>(mg/kg/</u>
Aluminium (Al)	ND	ND	ND	ND	300	70000
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) **	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI) **	ND	ND [#]	ND [#]	ND [#]	0.025	0.2/0.053©
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	2.5	180000
Organic tin **	ND	ND	ND	ND	2.0	12
Zinc (Zn)	ND	ND	309	ND	100	46000



Tel +8620 8213 9688 Fax +8620 3205 3537 intertek.com.cn intertek.com

 Intertek Testing Services Shenzhen Limited, Guangzhou Branch
 Block E, No.7-2 Caipin Road, Guangzhou Science City, GETDD, Guangzhou. \ 111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Science City, New & Hightech Development District, Guangzhou.
 广州经济技术开发区科学城彩频路 7 号之二 E 栋。广州市高新技术开发区科

学城光谱西路 69 号 TCL 文化产业园汇创空间 111 室。(邮编: 510663)



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Number: GZHH00339668

Tests Conducted

Remark : mg/kg = milligram per kilogram ++ = Unless the test results were marked with "#" or "\(\Delta\)", 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. ND = Not detected (less than reporting limit) © = The new chromium (VI) migration limit [(0.053mg/kg for Category (III)] were quoted from directive (EU) 2018/725 amending 2009/48/EC effective from 18 November 2019. # = Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).

Tested Component(s):

	Sequence No.	Test No.	Component	Test Component Description(s)
	SN1	(1)	@	Orange coating on plastic (outside mirror, fender of #31246).
	SN2	(2)	0	Silver color coating on plastic (rim, exhaust of #31246, #31513, #31231, #31133).
	SN3	(3)		Dark taupe coating on plastic (center console of #31246) (sample weight: 41.7mg).
	SN4	(4)	@	Red coating on plastic (rear car light of #31246, #31513).
	SN5	(5)	<u>@</u>	Black coating on plastic (window of all styles).
	SN6	(6)	C	Coatings (orange, black, white, silver color, blue) on metal (body of #31246).
	SN7	(8)	@	Bright silver color coating on plastic (exhaust of #31133, rim, engine of #31354, fender of #31231).
	SN8	(9)		Coatings (yellow, black, silver color, red, orange, bright silver color) on metal (body of #31133).
	SN9	(11)	@	Metallic light blue coating on plastic (base of engine of #31354).
	SN10	(12)	0	Yellow coating on plastic (roof of #31354).
	SN11	(13)		Coatings (yellow, blue, silver color) on plastic (front engine of #31354).
	SN12	(14)		Coatings (yellow, white, black, silver color, red) on metal (body of #31354).
	SN13	(16)	@	Dark grey coating on plastic (fender of #31231).
	SN14	(17)	<u>@</u>	Coatings (red, orange) on plastic (rear car light of #31231).
	SN15	(18)	C	Coatings (dark yellow, black, red) on plastic (roof of #31231).
	SN16	(19)	@	Coatings (white, black, red) on plastic (door, center console of #31231).
	SN17	(20)	-	Coatings (yellow, orange, silver color, black, red) on metal (body of #31231).
	SN18	(22)		Coatings (metallic silver-grey, silver color, red) on metal (body of #31513).
	SN19	(23)		Black 60 °PVC plastic (tire of #31231, #31354, #31513).
	SN20	(24)		Black 70 °PVC plastic (tire of #31133, #31246).
**	******	******	******	***************************************



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Tests Conducted



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Tested Component(s):

Sequence	•	Test Component Description(s)
No.	No.	
SN21	(25)	Black plastic (base of all styles).
SN22	(26)	Dark taupe plastic (door, center console of #31231).
SN23	(27)	Transparent plastic (window of all styles).
SN24	(28)	Black plastic excluding coatings (outside mirror, fender of #31246,
		exhaust of #31133, rim, engine of #31354, fender of #31231, base of engine of #31354).
SN25	(29)	Black soft plastic (outside mirror, windshield wiper of #31231).
SN26	(30)	Yellow plastic excluding coating (roof of #31231, #31354).
SN27	(31)	Orange plastic (rim, frame of #31246).
SN28	(32)	Semi-transparent plastic excluding coatings (rear car light of #31246, #31231, #31513).
SN29	(33)	Semi-transparent plastic (car light of all styles).
SN30	(34)	Off-white plastic excluding coatings (rim of #31513, 31231).
SN31	(35)	Matte black plastic (roof, tail of #31246).
SN32	(36)	Transparent adhesive plastic with inaccessible coatings (mirror of all
0.100		styles) (sample weight: 14.6mg).
SN33	(37) @	White adhesive paper with transparent plastic film and inaccessible coatings (sticker of #31231).
SN34	(38) @	White adhesive paper with printings (black, yellow) (sticker of #31354).

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

(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).



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Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone, leather and other materials).

Date sample received: Sep 17, 2019 Testing period: Sep 17, 2019 to Sep 27, 2019

- 4 19 Toxic Element Migration Test
 - (A) Test Result

As per EN71-3:2019 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Ion Chromatography with UV-VIS.

Category (III): Scraped-off toy material

		<u>Re</u>	Reporting	Limit (mg/kg)			
<u>Element</u>		Test					
	<u>(3)</u>	<u>(6)</u>	<u>(9)</u>	<u>(12)</u>	<u>(13)</u>	<u>(mg/kg)</u>	<u>(mg/kg/</u>
Aluminium (Al)	ND	4307	975	506	340	300	70000
Antimony (Sb)	ND	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) **	ND	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI) **	ND [#]	ND [#]	ND [#]	ND [#]	ND [#]	0.025	0.053©
Cobalt (Co)	ND	ND	ND	ND	ND	10	130
Copper (Cu)	18	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	ND	2.5	180000
Organić tin **	ND	ND	ND	ND	ND	2.0	12
Zinc (Zn)	ND	7257	6458	795	146	100	46000



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 Intertek Testing Services Shenzhen Limited,
 Block E, No.7-2 Caipin Road, Guangzhou Science City, GETDD,

 Guangzhou Branch
 Guangzhou. \ 111, Huichuang Kongjian, TCL Cultural Industrial

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 Development District, Guangzhou.





Tests Conducted



Number:

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		<u>Result</u>	Reporting	<u>Limit</u> (mg/kg)		
<u>Element</u>		Tested Co	Limit			
	(14)	<u>(18)</u>	(20)	(22)	<u>(mg/kg)</u>	<u>(mg/kg/</u>
Aluminium (Al)	2113	ND	1929	7545	300	70000
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) **	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI) **	ND [#]	ND [#]	ND [#]	ND [#]	0.025	0.053©
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	2.5	180000
Organic tin **	ND	ND	ND	ND	2.0	12
Zinc (Zn)	7736	ND	7475	6909	100	46000

		<u>Result (m</u>	<u>ig/kg)</u>		Reporting	1.1
Element		Tested Component			Limit	<u>Limit</u> (mg/kg)
	(23)to(27)	(28)to(34)	(35)	(36)	<u>(mg/kg)</u>	<u>(mg/tg/</u>
Aluminium (Al)	ND	ND	ND	ND	300	70000
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) **	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI) **	ND	ND [#]	ND [#]	ND [#]	0.025	0.053©
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	2.5	180000
Organic tin **	ND	ND	ND	ND	2.0	12
Zinc (Zn)	ND	ND	309	ND	100	46000



Tel +8620 8213 9688 Fax +8620 3205 3537 intertek.com.cn intertek.com

 Intertek Testing Services Shenzhen Limited, Guangzhou Branch
 Block E, No.7-2 Caipin Road, Guangzhou Science City, GETDD, Guangzhou. \ 111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Science City, New & Hightech Development District, Guangzhou.

Development District, Guangzhou. 广州经济技术开发区科学城彩频路 7 号之二 E 栋。广州市高新技术开发区科 学城光谱西路 69 号 TCL 文化产业园汇创空间 111 室。(邮编: 510663)





Tests Conducted



Number: GZHH00339668

Remark : mg/kg = milligram per kilogram ++ = Unless the test results were marked with "#" or "\(\Delta\)", 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. ND = Not detected (less than reporting limit) © = The new chromium (VI) migration limit [(0.053mg/kg for Category (III)] were quoted from directive (EU) 2018/725 amending 2009/48/EC effective from 18 November 2019. # = Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).

Tested Component(s):

Sequence No.	Test No.	Component	Test Component Description(s)
SN1	(1)	@	Orange coating on plastic (outside mirror, fender of #31246).
SN2	(2)	@	Silver color coating on plastic (rim, exhaust of #31246, #31513, #31231, #31133).
SN3	(3)		Dark taupe coating on plastic (center console of #31246) (sample weight: 41.7mg).
SN4	(4)	@	Red coating on plastic (rear car light of #31246, #31513).
SN5	(5)	<u>@</u>	Black coating on plastic (window of all styles).
SN6	(6)	-	Coatings (orange, black, white, silver color, blue) on metal (body of #31246).
SN7	(8)	@	Bright silver color coating on plastic (exhaust of #31133, rim, engine of #31354, fender of #31231).
SN8	(9)		Coatings (yellow, black, silver color, red, orange, bright silver color) on metal (body of #31133).
SN9	(11)	@	Metallic light blue coating on plastic (base of engine of #31354).
SN10	(12)	U	Yellow coating on plastic (roof of #31354).
SN11	(13)		Coatings (yellow, blue, silver color) on plastic (front engine of #31354).
SN12	(14)		Coatings (yellow, white, black, silver color, red) on metal (body of #31354).
SN13	(16)	@	Dark grey coating on plastic (fender of #31231).
SN14	(17)	<u>@</u>	Coatings (red, orange) on plastic (rear car light of #31231).
SN15	(18)	0	Coatings (dark yellow, black, red) on plastic (roof of #31231).
SN16	(19)	@	Coatings (white, black, red) on plastic (door, center console of #31231).
SN17	(20)	C	Coatings (yellow, orange, silver color, black, red) on metal (body of #31231).
SN18	(22)		Coatings (metallic silver-grey, silver color, red) on metal (body of #31513).
SN19	(23)	*****	Black 60 °PVC plastic (tire of #31231, #31354, #31513).



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Tests Conducted



Number: GZHH00339668

Sequence No.	Test Component No.	Test Component Description(s)
SN20	(24)	Black 70 °PVC plastic (tire of #31133, #31246).
SN21	(25)	Black plastic (base of all styles).
SN22	(26)	Dark taupe plastic (door, center console of #31231).
SN23	(27)	Transparent plastic (window of all styles).
SN24	(28)	Black plastic excluding coatings (outside mirror, fender of #31246,
		exhaust of #31133, rim, engine of #31354, fender of #31231, base of engine of #31354).
SN25	(29)	Black soft plastic (outside mirror, windshield wiper of #31231).
SN26	(30)	Yellow plastic excluding coating (roof of #31231, #31354).
SN27	(31)	Orange plastic (rim, frame of #31246).
SN28	(32)	Semi-transparent plastic excluding coatings (rear car light of #31246, #31231, #31513).
SN29	(33)	Semi-transparent plastic (car light of all styles).
SN30	(34)	Off-white plastic excluding coatings (rim of #31513, 31231).
SN31	(35)	Matte black plastic (roof, tail of #31246).
SN32	(36)	Transparent adhesive plastic with inaccessible coatings (mirror of all styles) (sample weight: 14.6mg).
SN33	(37) @	White adhesive paper with transparent plastic film and inaccessible coatings (sticker of #31231).
SN34	(38) @	White adhesive paper with printings (black, yellow) (sticker of #31354).

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

(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone, leather and other materials).

Date sample received: Sep 17, 2019 Testing period: Sep 17, 2019 to Sep 27, 2019



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Intertek Testing Services Shenzhen Limited, Block E, No.7-2 Caipin Road, Guangzhou Science City, GETDD, Guangzhou. \ 111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Science City, New & Hightech Development District, Guangzhou.







中国认可 国际互认 检测 TESTING **CNAS L0220**

Number: GZHH00339668

Tests Conducted

5 Cadmium (Cd) Content

With reference to test method IEC 62321-5:2013, acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Element</u>	Result (%)	Reporting
	Tested Component	
	(1/2/3), (4/5/6), (8/9), (11/12), (13), (14), (16/17/18), (19/20), (22),	<u>Limit</u> (%)
	(23+24), (25+26+27), (28+29+30), (31+32+33), (34+35+36), (37), (38)	(70)
Cadmium (Cd)	ND	0.0005

Limit:

Category	Limit (%)
Wet paint	0.01
Surface coating	0.1
Plastic	0.01
Metal parts of jewelry & hair accessories	0.01

ND = Not detected (less than reporting limit)

Tested Component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1)	Orange coating on plastic (outside mirror, fender of #31246).
SN2	(2)	Silver color coating on plastic (rim, exhaust of #31246, #31513, #31231, #31133).
SN3	(3)	Dark taupe coating on plastic (center console of #31246).
SN4	(4)	Red coating on plastic (rear car light of #31246, #31513).
SN5	(5)	Black coating on plastic (window of all styles).
SN6	(6)	Coatings (orange, black, white, silver color, blue) on metal (body of #31246).
SN7	(8)	Bright silver color coating on plastic (exhaust of #31133, rim, engine of #31354, fender of #31231).
SN8	(9)	Coatings (yellow, black, silver color, red, orange, bright silver color) on metal (body of #31133).
SN9	(11)	Metallic light blue coating on plastic (base of engine of #31354).
SN10	(12)́	Yellow coating on plastic (roof of #31354).
SN11	(13)	Coatings (yellow, blue, silver color) on plastic (front engine of #31354).
SN12	(14)	Coatings (yellow, white, black, silver color, red) on metal (body of #31354).



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 Development District, Guangzhou.





Tests Conducted



Number: GZHH00339668

Sequence No.	Test Component No.	Test Component Description(s)
SN13	(16)	Dark grey coating on plastic (fender of #31231).
SN14	(10)	Coatings (red, orange) on plastic (rear car light of #31231).
SN15	(17)	Coatings (dark yellow, black, red) on plastic (rear car light of #31231).
SN15 SN16	(10)	Coatings (white, black, red) on plastic (door, center console of #31231).
SN10 SN17	(19)	Coatings (while, black, red) on plastic (door, center console of #31231). Coatings (yellow, orange, silver color, black, red) on metal (body of
SINT	(20)	#31231).
SN18	(22)	Coatings (metallic silver-grey, silver color, red) on metal (body of
0140	(00)	#31513).
SN19	(23)	Black 60 °PVC plastic (tire of #31231, #31354, #31513).
SN20	(24)	Black 70 °PVC plastic (tire of #31133, #31246).
SN21	(25)	Black plastic (base of all styles).
SN22	(26)	Dark taupe plastic (door, center console of #31231).
SN23	(27)	Transparent plastic (window of all styles).
SN24	(28)	Black plastic excluding coatings (outside mirror, fender of #31246,
		exhaust of #31133, rim, engine of #31354, fender of #31231, base of engine of #31354).
SN25	(29)	Black soft plastic (outside mirror, windshield wiper of #31231).
SN26	(30)	Yellow plastic excluding coating (roof of #31231, #31354).
SN27	(31)	Orange plastic (rim, frame of #31246).
SN28	(32)	Semi-transparent plastic excluding coatings (rear car light of #31246,
01120	(32)	#31231, #31513).
SN29	(33)	Semi-transparent plastic (car light of all styles).
SN30	(34)	Off-white plastic excluding coatings (rim of #31513, 31231).
SN31	(35)	Matte black plastic (roof, tail of #31246).
SN32	(36)	Transparent adhesive plastic with inaccessible coatings (mirror of all
CNIDD	(07)	styles).
SN33	(37)	White adhesive paper with transparent plastic film and inaccessible coatings (sticker of #31231).
SN34	(38)	White adhesive paper with printings (black, yellow) (sticker of #31354).
The Cadmir	im content test of th	ne tested components (1)to(6) (8) (9) (11) (12) (16)to(20) were conducted in

The Cadmium content test of the tested components (1)to(6), (8), (9), (11), (12), (16)to(20) were conducted in composite for the materials which sample size is not sufficient to carry out the test individually.

Date sample received: Sep 17, 2019 Testing period: Sep 17, 2019 to Sep 27, 2019



Tel +8620 8213 9688 Fax +8620 3205 3537 intertek.com.cn intertek.com



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 Block E, No.7-2 Caipin Road, Guangzhou Science City, GETDD, Guangzhou. \ 111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Science City, New & Hightech Development District, Guangzhou.



中国认可 国际互认 检测 TESTING **CNAS L0220**

Number: GZHH00339668

Tests Conducted

6 Phthalate Content

With reference to International Standard ISO 8124-6:2018, and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS).

For 7 phthalate

Test Item	<u>CAS No.</u>	<u>Result (%)</u> <u>Tested component</u> (7+10+15), (21+22), (23+24), (25+26+27), (28+29+30), (31+32+33), (34+35+36), (37), (38)	Reporting Limit (%)	Limit (%)
Dibutyl phthalate (DBP)	84-74-2	ND	0.005	
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	0.005	
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.005	
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.005	
Sum of DBP, DEHP, BBP and DIBP		ND		0.1
Di-iso-nonyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	0.005	
Di-n-octyl phthalate(DNOP)	117-84-0	ND	0.005	
Di-iso-decyl phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	0.005	
Sum of DINP, DNOP and DIDP		ND		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 & Amendment Commission Regulation (EU) 2018/2005 for phthalate content in articles (formerly known as Directive 2005/84/EC).

For toys and childcare articles, combination of DIBP to current limit (sum of DBP, DEHP and BBP) was quoted from Commission Regulation (EU) 2018/2005 effective from 7 July 2020.

ND = Not detected (less than reporting limit)

Tested Component(s):

	Sequence No.	Test Component No.	Test Component Description(s)		
	SN1	(7)	Coatings (orange, black, white, silver color, blue, red, dark taupe) on metal/plastic (body, outside mirror, fender, rim, exhaust, center console, rear car light, window of #31246).		
	SN2	(10)	Coatings (yellow, black, silver color, red, orange) on metal/plastic (body of #31133, exhaust of #31133, rim, engine of #31354, fender of #31231).		
***	***************************************				



Guangzhou Branch 深圳天祥质量技术服务有限公司广州分公司

Intertek Testing Services Shenzhen Limited, Block E, No.7-2 Caipin Road, Guangzhou Science City, GETDD, Guangzhou. \ 111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Science City, New & Hightech Development District, Guangzhou.

广州经济技术开发区科学城彩频路 7 号之二 E 栋。广州市高新技术开发区科 学城光谱西路 69 号 TCL 文化产业园汇创空间 111 室。(邮编: 510663)





Tests Conducted



Number: GZHH00339668

Sequence No.	Test Component No.	Test Component Description(s)
SN3	(15)	Coatings (yellow, white, black, blue, silver color, metallic light blue) on
	(10)	metal/plastic (body, base of engine, roof, front engine of #31354).
SN4	(21)	Coatings (yellow, orange, silver color, black, red, dark yellow, dark grey on metal/plastic (body, fender, rear car light, roof, door, center console #31231).
SN5	(22)	Coatings (metallic silver-grey, silver color, red) on metal (body of #31513).
SN6	(23)	Black 60 °PVC plastic (tire of #31231, #31354, #31513).
SN7	(24)	Black 70 °PVC plastic (tire of #31133, #31246).
SN8	(25)	Black plastic (base of all styles).
SN9	(26)	Dark taupe plastic (door, center console of #31231).
SN10	(27)	Transparent plastic (window of all styles).
SN11	(28)	Black plastic excluding coatings (outside mirror, fender of #31246, exhaust of #31133, rim, engine of #31354, fender of #31231, base of engine of #31354).
SN12	(29)	Black soft plastic (outside mirror, windshield wiper of #31231).
SN13	(30)	Yellow plastic excluding coating (roof of #31231, #31354).
SN14	(31)	Orange plastic (rim, frame of #31246).
SN15	(32)	Semi-transparent plastic excluding coatings (rear car light of #31246, #31231, #31513).
SN16	(33)	Semi-transparent plastic (car light of all styles).
SN17	(34)	Off-white plastic excluding coatings (rim of #31513, 31231).
SN18	(35)	Matte black plastic (roof, tail of #31246).
SN19	(36)	Transparent adhesive plastic with inaccessible coatings (mirror of all styles).
SN20	(37)	White adhesive paper with transparent plastic film and inaccessible coatings (sticker of #31231).
SN21	(38)	White adhesive paper with printings (black, yellow) (sticker of #31354).



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 Block E, No.7-2 Caipin Road, Guangzhou Science City, GETDD, Guangzhou. \ 111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Science City, New & Hightech Development District, Guangzhou.





Tests Conducted

7 Phthalates Content

By solvent extraction and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

<u>Test item</u>	Result (%) <u>Tested component</u> (7+10+15), (21+22), (23+24), (25+26+27), (28+29+30), (31+32+33), (34+35+36), (37), (38)	Reporting limit (%)
Di-n-hexyl phthalate (DnHP)	ND	0.01
Di-iso-butyl phthalate (DIBP)	ND	0.01
Di-cyclohexyl phthalate (DCHP)	ND	0.01
Di-n-pentyl phthalate (DPENP)	ND	0.01

ND = Not Detected

Tested Components:

	Sequence No.	Test Component No.	Test Component Description(s)
	SN1	(7)	Coatings (orange, black, white, silver color, blue, red, dark taupe) on metal/plastic (body, outside mirror, fender, rim, exhaust, center console, rear car light, window of #31246).
	SN2	(10)	Coatings (yellow, black, silver color, red, orange) on metal/plastic (body of #31133, exhaust of #31133, rim, engine of #31354, fender of #31231).
	SN3	(15)	Coatings (yellow, white, black, blue, silver color, metallic light blue) on metal/plastic (body, base of engine, roof, front engine of #31354).
	SN4	(21)	Coatings (yellow, orange, silver color, black, red, dark yellow, dark grey) on metal/plastic (body, fender, rear car light, roof, door, center console of #31231).
	SN5	(22)	Coatings (metallic silver-grey, silver color, red) on metal (body of #31513).
	SN6	(23)	Black 60 °PVC plastic (tire of #31231, #31354, #31513).
	SN7	(24)	Black 70 °PVC plastic (tire of #31133, #31246).
	SN8	(25)	Black plastic (base of all styles).
	SN9	(26)	Dark taupe plastic (door, center console of #31231).
	SN10	(27)	Transparent plastic (window of all styles).
	SN11	(28)	Black plastic excluding coatings (outside mirror, fender of #31246, exhaust of #31133, rim, engine of #31354, fender of #31231, base of engine of #31354).
	SN12	(29)	Black soft plastic (outside mirror, windshield wiper of #31231).
	SN13	(30)	Yellow plastic excluding coating (roof of #31231, #31354).
	SN14	(31)	Orange plastic (rim, frame of #31246).
	SN15	(32)	Semi-transparent plastic excluding coatings (rear car light of #31246, #31231, #31513).
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 Intertek Testing Services Shenzhen Limited, Guangzhou Branch
 Block E, No.7-2 Caipin Road, Guangzhou Science City, GETDD, Guangzhou. \ 111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Science City, New & Hightech Development District, Guangzhou.

广州经济技术开发区科学城彩频路 7 号之二 E 栋。广州市高新技术开发区科 学城光谱西路 69 号 TCL 文化产业园汇创空间 111 室。(邮编: 510663)

Tel +8620 8213 9688 Fax +8620 3205 3537 intertek.com.cn intertek.com





Number: GZHH00339668



Tests Conducted



Number: GZHH00339668

Sequence No.	Test Component No.	Test Component Description(s)
SN16	(33)	Semi-transparent plastic (car light of all styles).
SN17	(34)	Off-white plastic excluding coatings (rim of #31513, 31231).
SN18	(35)	Matte black plastic (roof, tail of #31246).
SN19	(36)	Transparent adhesive plastic with inaccessible coatings (mirror of all styles).
SN20	(37)	White adhesive paper with transparent plastic film and inaccessible coatings (sticker of #31231).
SN21	(38)	White adhesive paper with printings (black, yellow) (sticker of #31354).

Date sample received: Sep 17, 2019 & Oct 18, 2019 Testing period: Sep 17, 2019 to Oct 22, 2019

Polycyclic Aromatic Hydrocarbons (PAHs) Content 8

With reference to AfPS GS 2014:01 PAK (PAH), PAHs content was determined by Gas Chromatography-Mass Spectrometry (GC-MS).

<u>Test item</u>	<u>Result (mg/kg)</u> <u>Tested component</u> (3+6), (9+12), (13+14), (18+20), (22), (23+24), (25+29), (30+33), (34+35), (36), (37), (38), (41+42+43), (44+45+46), (47+48+49)	<u>Reporting</u> limit (mg/kg)	<u>Limit</u> (mg/kg)
Benzo[a]anthracene	ND	0.1	0.5
Chrysene	ND	0.1	0.5
Benzo[b]fluoranthene	ND	0.1	0.5
Benzo[k]fluoranthene	ND	0.1	0.5
Benzo[a]pyrene	ND	0.1	0.5
Dibenzo[a,h]anthracene	ND	0.1	0.5
Benzo[j]fluoranthene	ND	0.1	0.5
Benzo[e]pyrene	ND	0.1	0.5

ND= Not detected (less than reporting limit)

Tested Component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(3)	Dark taupe coating on plastic (center console of #31246).
SN2	(6)	Coatings (orange, black, white, silver color, blue) on metal (body of #31246).
SN3	(9)	Coatings (yellow, black, silver color, red, orange, bright silver color) on metal (body of #31133).



Tel +8620 8213 9688

 Intertek Testing Services Shenzhen Limited, Guangzhou Branch
 Block E, No.7-2 Caipin Road, Guangzhou Science City, GETDD, Guangzhou. \ 111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangzhou Road, Science City, New & Hightech
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Tested Component(s):

Tests Conducted



GZHH00339668 Number:

Sequence No.	Test Component No.	Test Component Description(s)			
SN4	(12)	Yellow coating on plastic (roof of #31354).			
SN5	(13)	Coatings (yellow, blue, silver color) on plastic (front engine of #31354).			
SN6	(14)	Coatings (yellow, white, black, silver color, red) on metal (body of #31354).			
SN7	(18)	Coatings (dark yellow, black, red) on plastic (roof of #31231).			
SN8	(20)	Coatings (yellow, orange, silver color, black, red) on metal (body of #31231).			
SN9	(22)	Coatings (metallic silver-grey, silver color, red) on metal (body of #31513).			
SN10	(23)	Black 60 °PVC plastic (tire of #31231, #31354, #31513).			
SN11	(24)	Black 70 °PVC plastic (tire of #31133, #31246).			
SN12	(25)	Black plastic (base of all styles).			
SN13	(29)	Black soft plastic (outside mirror, windshield wiper of #31231).			
SN14	(30)	Yellow plastic excluding coating (roof of #31231, #31354).			
SN15	(33)	Semi-transparent plastic (car light of all styles).			
SN16	(34)	Off-white plastic excluding coatings (rim of #31513, 31231).			
SN17	(35)	Matte black plastic (roof, tail of #31246).			
SN18	(36)	Transparent adhesive plastic with inaccessible coatings (mirror of all styles).			
SN19	(37)	White adhesive paper with transparent plastic film and inaccessible coatings (sticker of #31231).			
SN20	(38)	White adhesive paper with printings (black, yellow) (sticker of #31354).			
SN21	(41)	Black plastic with orange coating (outside mirror, fender of #31246).			
SN22	(42)	Orange plastic with silver color coating (rim, exhaust of #31246, #31513, #31231, #31133).			
SN23	(43)	Semi-transparent plastic with red coating (rear car light of #31246, #31513).			
SN24	(44)	Transparent plastic with black coating (window of all styles).			
SN25	(45)	Black plastic with bright silver color coating (exhaust of #31133, rim, engine of #31354, fender of #31231).			
SN26	(46)	Black plastic with metallic light blue coating (base of engine of #31354).			
SN27	(47)	Black plastic with dark grey coating (fender of #31231).			
SN28	(48)	Semi-transparent plastic with coatings (red, orange) (rear car light of #31231).			
SN29	(49)	Dark taupe plastic with coatings (white, black, red) (door, center console of #31231).			
Date sample received: Sep 17, 2019 & Oct 18, 2019					

Testing period: Sep 17, 2019 to Oct 22, 2019



 Intertek Testing Services Shenzhen Limited, Guangzhou Branch
 Block E, No.7-2 Caipin Road, Guangzhou Science City, GETDD, Guangzhou. \ 111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Science City, New & Hightech Development District, Guangzhou.

广州经济技术开发区科学城彩频路 7 号之二 E 栋。广州市高新技术开发区科 学城光谱西路 69 号 TCL 文化产业园汇创空间 111 室。(邮编: 510663)





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Appendix

Applicant's Ref.

: 31021 31027 31029 31084 31088	1:24 Allstars, Assorted 1:27 Hummer, Assorted 1:24 Custom Shop, Assorted 1:24 Special Edition (#31900) with white mailer box 1:24 Pro-Rodz, Assorted
	1:24 Pro-Rodz ~ 1968 Chevrolet Camaro SS 396 Convertible
31302	1:24 Special Edition in Creative graphic window box
31900	1:24 - 1:27 Special Edition, Assorted
31900A	1:24 ~ 1:27 SCALE METAL KRUZERZ, ASSORTED
	1:24 ~ 1:27 SCALE METAL KRUZERZ, ASSORTED
	1:24 Custom Shop + 1:24 ProdRodz ProStreet, Assorted
	Marvel Iron Man 2 1:24 Die-cast Vehicle Asst.
	1:24 Dirt Riders ~ Assorted
	1:24 AllStars Elite Transport
	1:24 - 1:27 Scale Vehicles in Floor Display
	1:24 Hippie Line ~ Volkswagen Van "Samba"
	14pcs 1:24 Custom Shop in Floor Display
	1:24 Dirt Riders 4pcs bulk in display box
	Mixed item floor display
	7 pcs 1:24 HD Ford Mustang + 7 pcs 1:24 Pickup in Floor Display
	1:24 Harley Davidson Ford, Asst. 20 pcs in floor display
	1:24 Pro-Rodz, Assorted ~ 4 pcs tray pack
	1:24 Custom Shop 4pk bulk in display box
	1:24 Scale 4 pk Vehicles in Open Tray Display
	1:24 SE + 1:12 Moto Assorted
	1:24 SE + 1:12 Moto Assorted
	1:24 Maisto Design Off-Road Kings, Assorted
	1:24 Special Edition Trucks 1:24 Special Edition Trucks 4PK vehicles in display tray.
	1:24 Design Classic Muscle, Assorted
	1:24 Design Modern Muscle, Assorted
	1:24 Design Exotic, Assorted
	1:24 Design Outlaws,Assorted
	1:24 Design Authority, Assorted
	1:24 Maisto Design Tokyo Mod ,Assorted
	1:24 Design Classics ,Assorted

-	31027 31029 31084 31088 31089 31302 31900 31900A 31900B 32019 32065 32089 32990 34009 32301 34019 34032 34040 34041 34049 34088 34040 34041 34049 34088 34089 34900 32900 62011 32520 31710 32451 32452 32453 32454 32455 32456 32457



 Intertek Testing Services Shenzhen Limited, Guangzhou Branch
 Block E, No.7-2 Caipin Road, Guangzhou Science City, GETDD, Guangzhou. \ 111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Science City, New & Hightech Development District, Guangzhou.

广州经济技术开发区科学城彩频路 7 号之二 E 栋。广州市高新技术开发区科 学城光谱西路 69 号 TCL 文化产业园汇创空间 111 室。(邮编: 510663)





Tests Conducted



Number:

GZHH00339668



End of report

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Block E, No.7-2 Caipin Road, Guangzhou Science City, GETDD, Guangzhou. \ 111, Huichuang Kongjian, TCL Cultural Industrial Park, No.69, Guangpu Road, Science City, New & Hightech Development District, Guangzhou.

广州经济技术开发区科学城彩频路 7 号之二 E 栋。广州市高新技术开发区科 学城光谱西路 69 号 TCL 文化产业园汇创空间 111 室。(邮编: 510663)

