

Test Report

Number: GZHH00355822

Applicant: BBURAGO INTERNATIONAL LIMITED
UNIT 901-2, 9/F., EAST OCEAN CENTRE,
98 GRANVILLE ROAD, TSIMSHATSUI EAST,
KOWLOON, HONG KONG

Date: Mar 26, 2020

Attn: ICY HUANG

Sample Description:

Ten (10) styles of submitted sample said to be :

No.	Item	Description	Color
1	18-41226	1:32 Mercedes Amg Petronas F1 W05 Hybrid (#44 Lewis Hamilton)	Silver
2	18-42001	1:32 Lamborghini Gallardo	Metallic Light Green
3	18-43012	1:32 2007 Jeep Wrangler Unlimited Rubicon	Metallic Blue
4	18-43020	1:32 Lamborghini Gallardo LP 560-4	Metallic Lt Green
5	18-43029	1:32 Land Rover Defender 110	Metallic Orange
6	18-43033	1:32 2013 SRT Viper GTS	Red
7	18-43043	1:32 Ford GT	Metallic Blue
8	18-43043	1:32 Ford GT	Light Blue/Orange
9	18-44066	1:32 New Holland T7.315	Blue
10	18-46014	1:32 Ferrari F12tdf	Red

Above sample information is submitted and/or identified by client

Labelled Age Group : "5+ AGES"
Appropriate Age Grading for Testing : Over 3 years
Packaging Provided by Applicant : Yes
Country of Origin : China

Tests conducted:

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

Conclusion:

Tested Samples	Standard	Result
Submitted samples	EN71-1:2014+A1:2018 for mechanical and physical properties	Pass
	EN71-2:2011+A1:2014 Flammability test	Pass
Tested component(s) of submitted samples	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

To be continued



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Conclusion:

<u>Tested Samples</u> Tested component(s) of submitted samples	<u>Standard</u>	<u>Result</u>
	EN 71-3:2019 on migration of certain elements	Pass
	EN 71-3:2019 on migration of certain elements and (EU) 2019/1922 amending 2009/48/EC (applies from 20 May 2021) for Aluminium migration	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 Entry 51 & 52 of the REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009 and (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 Requirement 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

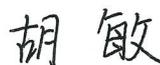
: This test in the report is not included in the CNAS accreditation schedule for our laboratory.

Approved:




Albert Chen
Toys Lab Assistant Manager

Approved:



Bella Hu
Sr. Engineer



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Tests Conducted

1 Physical and Mechanical Tests

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

Clause	Testing Items	Assessment
4	General requirements	
4.1	Material	P
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	P
4.8	Points and metallic wires	P
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	
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
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA



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Clause	Testing Items	Assessment
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	P
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 teethingers	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 on the packaging was in a correct format.

Date sample received : Mar 16, 2020
Testing period : Mar 16, 2020 to Mar 23, 2020

2 Flammability Test

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

Clause	Testing Items	Assessment
4.1	General	P
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 : Mar 16, 2020
Testing period : Mar 16, 2020 to Mar 23, 2020



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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

Element	Result (mg/kg)				Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component					
	(2)	(5)	(9)	(12)		
Aluminium (Al)	1910	2979	2229	4978	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)	13	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)	9206	9892	8982	8999	100	46000



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Element	Result (mg/kg)				Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component					
	(15)	(17)	(20)	(21)		
Aluminium (Al)	8944	22672	1873	4514	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)	740	8114	307	10023	100	46000

Element	Result (mg/kg)				Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component					
	(25)	(27)	(28)	(29)		
Aluminium (Al)	1361	4261	17486	2940	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)	8123	9574	10098	9452	100	46000



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Element	Result (mg/kg)		Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component			
	(33)	(38)		
Aluminium (Al)	ND	ND	300	70000
Antimony (Sb)	ND	ND	10	560
Arsenic (As)	ND	ND	10	47
Barium (Ba)	ND	ND	10	18750
Boron (B)	ND	ND	50	15000
Cadmium (Cd)	ND	ND	5	17
Chromium (III) (Cr III) **	ND	ND	10	460
Chromium (VI) (Cr VI) **	ND	ND	0.025	0.2/0.053◎
Cobalt (Co)	ND	ND	10	130
Copper (Cu)	12	ND	10	7700
Lead (Pb)	ND	ND	10	23
Manganese (Mn)	ND	ND	10	15000
Mercury (Hg)	ND	ND	10	94
Nickel (Ni)	ND	ND	10	930
Selenium (Se)	ND	ND	10	460
Strontium (Sr)	ND	ND	100	56000
Tin (Sn)	ND	ND	2.5	180000
Organic tin **	ND	ND	2.0	12
Zinc (Zn)	ND	168	100	46000

Element	Result (mg/kg)		Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component			
	(30)to(32), (34)to(37), (39), (40)			
Aluminium (Al)	ND		300	70000
Antimony (Sb)	ND		10	560
Arsenic (As)	ND		10	47
Barium (Ba)	ND		10	18750
Boron (B)	ND		50	15000
Cadmium (Cd)	ND		5	17
Chromium (III) (Cr III) **	ND		10	460
Chromium (VI) (Cr VI) **	ND		0.025	0.2/0.053◎
Cobalt (Co)	ND		10	130
Copper (Cu)	ND		10	7700
Lead (Pb)	ND		10	23
Manganese (Mn)	ND		10	15000
Mercury (Hg)	ND		10	94
Nickel (Ni)	ND		10	930
Selenium (Se)	ND		10	460
Strontium (Sr)	ND		100	56000
Tin (Sn)	ND		2.5	180000
Organic tin **	ND		2.0	12
Zinc (Zn)	ND		100	46000



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Tests Conducted

Remark : 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.
 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.

Tested Component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1) @	Black coating on plastic (window of #46014, #43033, #43043, #43020, #42001, #43012, 43029).
SN2	(2)	Coatings (red, black, yellow, silver color, white, blue) on metal (body of #46014, window of #46014, #43033, #43043, #43020, #42001, #43012, 43029).
SN3	(4) @	Silver color coating on plastic (rim of #43033, #43043 light blue, #43029, #43012).
SN4	(5)	Coatings (red, silver color, black) on metal (body of #43033).
SN5	(7) @	Red coating on plastic (rear light of #43043, #43020, #42001, #43012).
SN6	(8) @	Silver-grey coating on plastic (outside mirror of #43043 light blue).
SN7	(9)	Coatings (light blue, orange, silver color, blue) on metal (body of #43043).
SN8	(11) @	Metallic blue coating on plastic (outside mirror of #43043).
SN9	(12)	Coatings (metallic blue, orange, red, silver color, blue) on metal (body of #43043).
SN10	(14) @	Yellow coating on plastic (pattern of wheel of #41226).
SN11	(15)	Coatings (silver color, cyan, black, white) on plastic (fender, tail of #41226) (sample weight: 32.0mg).
SN12	(16) @	Coatings (black, red, cyan, white, orange) on plastic (head of #41226).
SN13	(17)	Coatings (silver color, cyan, black, red, white) on metal (body of #41226).
SN14	(19) @	Grey coating on plastic (driving cab of #44066).
SN15	(20)	Coatings (blue, silver color, red, black) on plastic (cover of wheel, roof of #44066).
SN16	(21)	Coatings (blue, black, white, orange, grey) on metal (cover of engine of #44066).
SN17	(23) @	Metallic green coating on plastic (seat of #42001).
SN18	(24) @	Bright silver color coating on plastic (rim of #42001).
SN19	(25)	Coatings (metallic light blue, orange, red, black, gold color) on metal (body of #42001).
SN20	(27)	Coatings (metallic blue, black, orange) on metal (body of #43012).
SN21	(28)	Coatings (metallic brown, black, silver color) on metal (body of #43029).
SN22	(29)	Coatings (metallic green, black, gold color, red) on metal (body of #43020).
SN23	(30)	Black 60 °PVC plastic (tire of #42001, #43012, #43020, #43029. #43033, #43043, #46014).



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Tested Component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN24	(31)	Black 60 °PVC plastic (tire of #41226, #44066).
SN25	(32)	Black plastic (base of all styles).
SN26	(33)	White plastic (rim of #44066, head of #41226).
SN27	(34)	Black plastic excluding coatings (driving cab, cover of wheel, roof of #44066, fender, tail of #412226, outside mirror of #43043).
SN28	(35)	Transparent plastic (window of all styles).
SN29	(36)	Semi-transparent plastic (headlight of all styles).
SN30	(37)	Semi-transparent plastic excluding coatings (rear light of #43043, #43020, #42001, #43012).
SN31	(38)	Semi-transparent red plastic (rear light of #46014, #43033).
SN32	(39)	Grey plastic excluding coatings (rim of #43033, #43043 light blue, #43029, #43012).
SN33	(40)	Transparent adhesive plastic sheet with inaccessible coatings (mirror of all styles) (sample weight: 37.0mg).
SN34	(41) @	White adhesive paper with transparent plastic film and inaccessible coatings (sticker).

@: 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: Mar 16, 2020

Testing period: Mar 16, 2020 to Mar 24, 2020



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Tests Conducted

4 19 Toxic Element Migration Test

(A) Test Result

As per EN 71-3:2019 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Ion Chromatography with UV-VIS.

Category (III): Scraped-off toy material

Element	Result (mg/kg)				Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component					
	(2)	(5)	(9)	(12)		
Aluminium (Al)	1910	2979	2229	4978	300	70000 / 28130 [▲]
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)	13	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)	9206	9892	8982	8999	100	46000



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	Tested Component					
	(15)	(17)	(20)	(21)		
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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
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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)	740	8114	307	10023	100	46000

Element	Result (mg/kg)				Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component					
	(25)	(27)	(28)	(29)		
Aluminium (Al)	1361	4261	17486	2940	300	70000 / 28130 [▲]
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
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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)	8123	9574	10098	9452	100	46000



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	Tested Component			
	(33)	(38)		
Aluminium (Al)	ND	ND	300	70000 / 28130 [▲]
Antimony (Sb)	ND	ND	10	560
Arsenic (As)	ND	ND	10	47
Barium (Ba)	ND	ND	10	18750
Boron (B)	ND	ND	50	15000
Cadmium (Cd)	ND	ND	5	17
Chromium (III) (Cr III) **	ND	ND	10	460
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Cobalt (Co)	ND	ND	10	130
Copper (Cu)	12	ND	10	7700
Lead (Pb)	ND	ND	10	23
Manganese (Mn)	ND	ND	10	15000
Mercury (Hg)	ND	ND	10	94
Nickel (Ni)	ND	ND	10	930
Selenium (Se)	ND	ND	10	460
Strontium (Sr)	ND	ND	100	56000
Tin (Sn)	ND	ND	2.5	180000
Organic tin **	ND	ND	2.0	12
Zinc (Zn)	ND	168	100	46000

Element	Result (mg/kg)		Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component			
	(30)to(32), (34)to(37), (39), (40)			
Aluminium (Al)	ND		300	70000 / 28130 [▲]
Antimony (Sb)	ND		10	560
Arsenic (As)	ND		10	47
Barium (Ba)	ND		10	18750
Boron (B)	ND		50	15000
Cadmium (Cd)	ND		5	17
Chromium (III) (Cr III) **	ND		10	460
Chromium (VI) (Cr VI) **	ND		0.025	0.053
Cobalt (Co)	ND		10	130
Copper (Cu)	ND		10	7700
Lead (Pb)	ND		10	23
Manganese (Mn)	ND		10	15000
Mercury (Hg)	ND		10	94
Nickel (Ni)	ND		10	930
Selenium (Se)	ND		10	460
Strontium (Sr)	ND		100	56000
Tin (Sn)	ND		2.5	180000
Organic tin **	ND		2.0	12
Zinc (Zn)	ND		100	46000



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Tests Conducted

Remark : 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.
 ND = Not detected (less than reporting limit)
 ▲ = The new Aluminium migration limit were quoted from Directive (EU) 2019/1922 amending Directive 2009/48/EC applicable from 20 May 2021.

Tested component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1) @	Black coating on plastic (window of #46014, #43033, #43043, #43020, #42001, #43012, 43029).
SN2	(2)	Coatings (red, black, yellow, silver color, white, blue) on metal (body of #46014, window of #46014, #43033, #43043, #43020, #42001, #43012, 43029).
SN3	(4) @	Silver color coating on plastic (rim of #43033, #43043 light blue, #43029, #43012).
SN4	(5)	Coatings (red, silver color, black) on metal (body of #43033).
SN5	(7) @	Red coating on plastic (rear light of #43043, #43020, #42001, #43012).
SN6	(8) @	Silver-grey coating on plastic (outside mirror of #43043 light blue).
SN7	(9)	Coatings (light blue, orange, silver color, blue) on metal (body of #43043).
SN8	(11) @	Metallic blue coating on plastic (outside mirror of #43043).
SN9	(12)	Coatings (metallic blue, orange, red, silver color, blue) on metal (body of #43043).
SN10	(14) @	Yellow coating on plastic (pattern of wheel of #41226).
SN11	(15)	Coatings (silver color, cyan, black, white) on plastic (fender, tail of #41226) (sample weight: 32.0mg).
SN12	(16) @	Coatings (black, red, cyan, white, orange) on plastic (head of #41226).
SN13	(17)	Coatings (silver color, cyan, black, red, white) on metal (body of #41226).
SN14	(19) @	Grey coating on plastic (driving cab of #44066).
SN15	(20)	Coatings (blue, silver color, red, black) on plastic (cover of wheel, roof of #44066).
SN16	(21)	Coatings (blue, black, white, orange, grey) on metal (cover of engine of #44066).
SN17	(23) @	Metallic green coating on plastic (seat of #42001).
SN18	(24) @	Bright silver color coating on plastic (rim of #42001).
SN19	(25)	Coatings (metallic light blue, orange, red, black, gold color) on metal (body of #42001).
SN20	(27)	Coatings (metallic blue, black, orange) on metal (body of #43012).
SN21	(28)	Coatings (metallic brown, black, silver color) on metal (body of #43029).
SN22	(29)	Coatings (metallic green, black, gold color, red) on metal (body of #43020).
SN23	(30)	Black 60 °PVC plastic (tire of #42001, #43012, #43020, #43029, #43033, #43043, #46014).



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Tests Conducted

Tested Component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN24	(31)	Black 60 °PVC plastic (tire of #41226, #44066).
SN25	(32)	Black plastic (base of all styles).
SN26	(33)	White plastic (rim of #44066, head of #41226).
SN27	(34)	Black plastic excluding coatings (driving cab, cover of wheel, roof of #44066, fender, tail of #412226, outside mirror of #43043).
SN28	(35)	Transparent plastic (window of all styles).
SN29	(36)	Semi-transparent plastic (headlight of all styles).
SN30	(37)	Semi-transparent plastic excluding coatings (rear light of #43043, #43020, #42001, #43012).
SN31	(38)	Semi-transparent red plastic (rear light of #46014, #43033).
SN32	(39)	Grey plastic excluding coatings (rim of #43033, #43043 light blue, #43029, #43012).
SN33	(40)	Transparent adhesive plastic sheet with inaccessible coatings (mirror of all styles) (sample weight: 37.0mg).
SN34	(41) @	White adhesive paper with transparent plastic film and inaccessible coatings (sticker).

@: 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: Mar 16, 2020

Testing period: Mar 16, 2020 to Mar 24, 2020



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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.

Element	Result (%)	Reporting Limit (%)
	Tested Component	
	(1/2), (4/5), (7/8/9), (11/12), (14/15), (16/17), (19/20), (21), (23/24/25), (27)to(29), (30+31+32), (33+34+35), (36+37+38), (39+40), (41)	
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)	Black coating on plastic (window of #46014, #43033, #43043, #43020, #42001, #43012, 43029).
SN2	(2)	Coatings (red, black, yellow, silver color, white, blue) on metal (body of #46014, window of #46014, #43033, #43043, #43020, #42001, #43012, 43029).
SN3	(4)	Silver color coating on plastic (rim of #43033, #43043 light blue, #43029, #43012).
SN4	(5)	Coatings (red, silver color, black) on metal (body of #43033).
SN5	(7)	Red coating on plastic (rear light of #43043, #43020, #42001, #43012).
SN6	(8)	Silver-grey coating on plastic (outside mirror of #43043 light blue).
SN7	(9)	Coatings (light blue, orange, silver color, blue) on metal (body of #43043).
SN8	(11)	Metallic blue coating on plastic (outside mirror of #43043).
SN9	(12)	Coatings (metallic blue, orange, red, silver color, blue) on metal (body of #43043).
SN10	(14)	Yellow coating on plastic (pattern of wheel of #41226).
SN11	(15)	Coatings (silver color, cyan, black, white) on plastic (fender, tail of #41226).
SN12	(16)	Coatings (black, red, cyan, white, orange) on plastic (head of #41226).



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Tests Conducted

Tested Components:

Sequence No.	Test Component No.	Test Component Description(s)
SN13	(17)	Coatings (silver color, cyan, black, red, white) on metal (body of #41226).
SN14	(19)	Grey coating on plastic (driving cab of #44066).
SN15	(20)	Coatings (blue, silver color, red, black) on plastic (cover of wheel, roof of #44066).
SN16	(21)	Coatings (blue, black, white, orange, grey) on metal (cover of engine of #44066).
SN17	(23)	Metallic green coating on plastic (seat of #42001).
SN18	(24)	Bright silver color coating on plastic (rim of #42001).
SN19	(25)	Coatings (metallic light blue, orange, red, black, gold color) on metal (body of #42001).
SN20	(27)	Coatings (metallic blue, black, orange) on metal (body of #43012).
SN21	(28)	Coatings (metallic brown, black, silver color) on metal (body of #43029).
SN22	(29)	Coatings (metallic green, black, gold color, red) on metal (body of #43020).
SN23	(30)	Black 60 °PVC plastic (tire of #42001, #43012, #43020, #43029, #43033, #43043, #46014).
SN24	(31)	Black 60 °PVC plastic (tire of #41226, #44066).
SN25	(32)	Black plastic (base of all styles).
SN26	(33)	White plastic (rim of #44066, head of #41226).
SN27	(34)	Black plastic excluding coatings (driving cab, cover of wheel, roof of #44066, fender, tail of #412226, outside mirror of #43043).
SN28	(35)	Transparent plastic (window of all styles).
SN29	(36)	Semi-transparent plastic (headlight of all styles).
SN30	(37)	Semi-transparent plastic excluding coatings (rear light of #43043, #43020, #42001, #43012).
SN31	(38)	Semi-transparent red plastic (rear light of #46014, #43033).
SN32	(39)	Grey plastic excluding coatings (rim of #43033, #43043 light blue, #43029, #43012).
SN33	(40)	Transparent adhesive plastic sheet with inaccessible coatings (mirror of all styles).
SN34	(41)	White adhesive paper with transparent plastic film and inaccessible coatings (sticker).
SN35	(42)	Silver color metal excluding coatings (body of all styles).
SN36	(43)	Silver color metal (screw).

The Cadmium content test of the tested components (1), (2), (4), (5), (7)to(9), (11), (12), (14)to(17), (19), (20), (23)to(25) were conducted in composite for the materials which sample size is not sufficient to carry out the test individually.

Date sample received: Mar 16, 2020
Testing period: Mar 16, 2020 to Mar 24, 2020



Test Report

Number: GZHH00355822

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 phthalates

Test Item	CAS No.	Result (%)	Reporting Limit (%)	Limit (%)
		Tested component (3+6+10), (13+18+22), (26+27), (28+29), (30+31), (32+33+34), (35+36+37), (38+39+40), (41)		
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 limit was quoted according to Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and Amendment (EC) No 552/2009 and (EU) 2018/2005, Annex XVII Entry 51 & 52 on Phthalate Content.

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	(3)	Coatings (red, black, yellow, silver color, white, blue) on metal/plastic (body of #46014, window of #46014, #43033, #43043, #43020, #42001, #43012, 43029).
SN2	(6)	Coatings (red, silver color, black) on metal/plastic (body of #43033, rim of #43033, #43043 light blue).
SN3	(10)	Coatings (light blue, orange, silver color, blue, silver-grey) on metal/plastic (body, rear light, outside mirror of #43043).



Test Report

Number: GZHH00355822

Tests Conducted

Tested Component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN4	(13)	Coatings (metallic blue, orange, red, silver color, blue) on metal/plastic (body, outside mirror of #43043).
SN5	(18)	Coatings (silver color, cyan, black, red, white, orange, yellow) on metal/plastic (body, wheel, fender, tail, head of #41226).
SN6	(22)	Coatings (blue, black, white, orange, grey, red) on metal/plastic (cover of engine, wheel, driving cab of #44066).
SN7	(26)	Coatings (metallic light blue, orange, red, black, gold color, bright silver color) on metal/plastic (body, rim, seat of #42001).
SN8	(27)	Coatings (metallic blue, black, orange) on metal (body of #43012).
SN9	(28)	Coatings (metallic brown, black, silver color) on metal (body of #43029).
SN10	(29)	Coatings (metallic green, black, gold color, red) on metal (body of #43020).
SN11	(30)	Black 60 °PVC plastic (tire of #42001, #43012, #43020, #43029. #43033, #43043, #46014).
SN12	(31)	Black 60 °PVC plastic (tire of #41226, #44066).
SN13	(32)	Black plastic (base of all styles).
SN14	(33)	White plastic (rim of #44066, head of #41226).
SN15	(34)	Black plastic excluding coatings (driving cab, cover of wheel, roof of #44066, fender, tail of #41226, outside mirror of #43043).
SN16	(35)	Transparent plastic (window of all styles).
SN17	(36)	Semi-transparent plastic (headlight of all styles).
SN18	(37)	Semi-transparent plastic excluding coatings (rear light of #43043, #43020, #42001, #43012).
SN19	(38)	Semi-transparent red plastic (rear light of #46014, #43033).
SN20	(39)	Grey plastic excluding coatings (rim of #43033, #43043 light blue, #43029, #43012).
SN21	(40)	Transparent adhesive plastic sheet with inaccessible coatings (mirror of all styles).
SN22	(41)	White adhesive paper with transparent plastic film and inaccessible coatings (sticker).

Date sample received: Mar 16, 2020
Testing period: Mar 16, 2020 to Mar 24, 2020



Test Report

Number: GZHH00355822

Tests Conducted

7 Phthalates Content

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

Test item	Result (%)	Reporting limit (%)
	Tested component	
	(3+6+10), (13+18+22), (26+27), (28+29), (30+31), (32+33+34), (35+36+37), (38+39+40), (41)	
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	(3)	Coatings (red, black, yellow, silver color, white, blue) on metal/plastic (body of #46014, window of #46014, #43033, #43043, #43020, #42001, #43012, 43029).
SN2	(6)	Coatings (red, silver color, black) on metal/plastic (body of #43033, rim of #43033, #43043 light blue).
SN3	(10)	Coatings (light blue, orange, silver color, blue, silver-grey) on metal/plastic (body, rear light, outside mirror of #43043).
SN4	(13)	Coatings (metallic blue, orange, red, silver color, blue) on metal/plastic (body, outside mirror of #43043).
SN5	(18)	Coatings (silver color, cyan, black, red, white, orange, yellow) on metal/plastic (body, wheel, fender, tail, head of #41226).
SN6	(22)	Coatings (blue, black, white, orange, grey, red) on metal/plastic (cover of engine, wheel, driving cab of #44066).
SN7	(26)	Coatings (metallic light blue, orange, red, black, gold color, bright silver color) on metal/plastic (body, rim, seat of #42001).
SN8	(27)	Coatings (metallic blue, black, orange) on metal (body of #43012).
SN9	(28)	Coatings (metallic brown, black, silver color) on metal (body of #43029).
SN10	(29)	Coatings (metallic green, black, gold color, red) on metal (body of #43020).
SN11	(30)	Black 60 °PVC plastic (tire of #42001, #43012, #43020, #43029, #43033, #43043, #46014).
SN12	(31)	Black 60 °PVC plastic (tire of #41226, #44066).
SN13	(32)	Black plastic (base of all styles).
SN14	(33)	White plastic (rim of #44066, head of #41226).
SN15	(34)	Black plastic excluding coatings (driving cab, cover of wheel, roof of #44066, fender, tail of #41226, outside mirror of #43043).



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Tests Conducted

Tested Components:

Sequence No.	Test Component No.	Test Component Description(s)
SN16	(35)	Transparent plastic (window of all styles).
SN17	(36)	Semi-transparent plastic (headlight of all styles).
SN18	(37)	Semi-transparent plastic excluding coatings (rear light of #43043, #43020, #42001, #43012).
SN19	(38)	Semi-transparent red plastic (rear light of #46014, #43033).
SN20	(39)	Grey plastic excluding coatings (rim of #43033, #43043 light blue, #43029, #43012).
SN21	(40)	Transparent adhesive plastic sheet with inaccessible coatings (mirror of all styles).
SN22	(41)	White adhesive paper with transparent plastic film and inaccessible coatings (sticker).

Date sample received : Mar 16, 2020
Testing period : Mar 16, 2020 to Mar 24, 2020

8 Polycyclic Aromatic Hydrocarbons (PAHs) Content

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

Test item	Result (mg/kg)		Reporting limit (mg/kg)	Limit (mg/kg)
	Tested component (2+5), (9+12), (15+17), (20+21), (25+27), (28+29), (30+31), (32+33), (34+35), (36+37), (38+39)			
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)



Test Report

Number: GZHH00355822

Tests Conducted

Tested Component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(2)	Coatings (red, black, yellow, silver color, white, blue) on metal (body of #46014, window of #46014, #43033, #43043, #43020, #42001, #43012, 43029).
SN2	(5)	Coatings (red, silver color, black) on metal (body of #43033).
SN3	(9)	Coatings (light blue, orange, silver color, blue) on metal (body of #43043).
SN4	(12)	Coatings (metallic blue, orange, red, silver color, blue) on metal (body of #43043).
SN5	(15)	Coatings (silver color, cyan, black, white) on plastic (fender, tail of #41226).
SN6	(17)	Coatings (silver color, cyan, black, red, white) on metal (body of #41226).
SN7	(20)	Coatings (blue, silver color, red, black) on plastic (cover of wheel, roof of #44066).
SN8	(21)	Coatings (blue, black, white, orange, grey) on metal (cover of engine of #44066).
SN9	(25)	Coatings (metallic light blue, orange, red, black, gold color) on metal (body of #42001).
SN10	(27)	Coatings (metallic blue, black, orange) on metal (body of #43012).
SN11	(28)	Coatings (metallic brown, black, silver color) on metal (body of #43029).
SN12	(29)	Coatings (metallic green, black, gold color, red) on metal (body of #43020).
SN13	(30)	Black 60 °PVC plastic (tire of #42001, #43012, #43020, #43029. #43033, #43043, #46014).
SN14	(31)	Black 60 °PVC plastic (tire of #41226, #44066).
SN15	(32)	Black plastic (base of all styles).
SN16	(33)	White plastic (rim of #44066, head of #41226).
SN17	(34)	Black plastic excluding coatings (driving cab, cover of wheel, roof of #44066, fender, tail of #41226, outside mirror of #43043).
SN18	(35)	Transparent plastic (window of all styles).
SN19	(36)	Semi-transparent plastic (headlight of all styles).
SN20	(37)	Semi-transparent plastic excluding coatings (rear light of #43043, #43020, #42001, #43012).
SN21	(38)	Semi-transparent red plastic (rear light of #46014, #43033).
SN22	(39)	Grey plastic excluding coatings (rim of #43033, #43043 light blue, #43029, #43012).

Date sample received: Mar 16, 2020
Testing period: Mar 16, 2020 to Mar 24, 2020



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Number: GZHH00355822

Tests Conducted

Appendix

Applicant's Ref. : 18-40000 1:32 Rally Collezione, Assorted
18-41200 1:32 Formula Collezione, asst. - window box
18-41220 1:32 MERCEDES AMG PETRONAS F1 W05 HYBRID, 12 pcs in dispenser
18-42200 1:32 Street Tuners Collezione, Assorted
18-42201 1:32 Street Tuners Collezione, 12 pcs in Counter Display
18-42203 1:32 Street Tuners Collezione 3pk
18-43118 1:32 Assortment in dispenser
18-43000 1:32 Street Fire Collezione, Assorted ~ each pc in w/b,
18-43100 1:32 Street Fire Collezione, Assorted ~ each pc in w/b, then 18pcs per dispenser
18-43101 1:32 Street Fire 3pk in window box
18-43102 1:18 Cycle + 1:32 Street Fire Twin Pack
18-43106 1:32 Street Fire Collezione in Floor Display
18-43107 1:32 Street Fire 4 pk
18-43108 1:32 Street Fire & 1:32 Street Tuners, Asst
18-43109 1:18 Cycle+ 1:32 Street Fire Twin Pack
18-44060 1:32 New Holland Farm Tractor + Trailer
18-44065 1:32 New Holland Farm Tractor
18-44066 1/32 New Holland T7.315
18-46000 1:32 Ferrari Race & Play
18-46010 1/32 Ferrari Race & Play in Window Box
18-4610 1:32 Ferrari Race & Play - 12 pcs in Dispenser



Test Report

Number: GZHH00355822

Tests Conducted



End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (APPENDIX B – Example 2) except designation from the customer, regulation or test specification.

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