

Test Report

Number: GZHH00363334

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

Date: May 31, 2020

Attn: ICY HUANG

Sample Description:

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

No.	Item	Description	Color
1	81086/13086	1:24 RC ~ Ferrari LaFerrari	Red
2	81088/13086	1:24 RC ~ Ford Shelby GT350	White
3	81142/13086	1:24 RC ~ 2012 Ford F-150 STX	Metallic Blue
4	81501/13086	1:24 RC ~ Ford GT	Bright Red
5	81506/13086	1:24 R/C ~ 1971 Datsun 510	Blue

Labelled Age Group : "5+"
Appropriate Age Grading for Testing : Over 5 years
Packaging Provided by Applicant : Yes
Country of Origin : China
Applicant's Ref. : 81018 1:24 Radio Control vehicles, Assorted
81016 1:24 Licensed R/C Vehicles, Asst.
81017 1:24 R/C Asst.
81056 1:24 CSRC with working headlights Asst.
81141 1:24 CSRC with working headlights Asst.
81217 1:24 R/C with stick controller, Asst.
83018 1:24 R/C in mailer box pack
83160 R/C 1:24 2016 Chevrolet® Camaro® SS
83023 R/C 1:24 2010 Chevrolet® Camaro® SS
83088 R/C 1:24 Ford Shelby GT350
81218 1:24 Maisto Tech R/C Asst.
84008 1:24 R/C 12pcs in Floor Display
84018 1/24 Maisto Tech R/C Asst. (New LC Version)
81140 1:24 Race R/C, Asst.
82066 Cyklone 360
82086 Cyklone 360
82066P/82087 R/C Cyklone 360 TURBO POLICE
83026&83086 RC Cyklone360 in FFP packaging
84026 Cyklone 360, 28 pcs in Floor Display
84027 RC Cyklone 360 Floor Display (With "Try Me")
82056 Rock Hauler R/C Dump Truck

Above sample information is submitted and/or identified by client

Tests conducted:

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

To be continued



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Conclusion:

<u>Tested sample</u> Submitted samples	<u>Standard</u>	<u>Result</u>
	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	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 6#
	<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 in the CNAS accredited testing scope.

Approved:




Parco Leung
Technical Supervisor

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

The submitted samples were undergone the following abuse tests:		
Test	Clause	Parameter
Drop test	8.5	850 mm x 5 times
Impact test	8.7	1 kg

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	P
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



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Clause	Testing Items	Assessment
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
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	Perussion 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



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= Age warning statement and indication of hazard was found on the packaging.

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 and toy were in a correct format.

Date sample received : May 13, 2020
Testing period : May 13, 2020 to May 19, 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 : May 13, 2020
Testing period : May 13, 2020 to May 19, 2020



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3 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 and Gas Chromatographic - Mass Spectrometry.

Category (III): Scraped-off toy material

Element	Result (mg/kg)				Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component					
	(3)	(6)	(9)	(12)		
Aluminium (Al)	22695	2634	2234	789	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)	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	5	12
Zinc (Zn)	ND	ND	ND	173	100	46000



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Element	Result (mg/kg)				Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component					
	(16)	(38)	(39)	(77)		
Aluminium (Al)	712	ND	ND	ND	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)	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)	5.4	ND	ND	ND	2.5	180000
Organic tin **	ND ^Δ	ND	ND	ND	5	12
Zinc (Zn)	ND	ND	ND	ND	100	46000

Element	Result (mg/kg)	Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(18)to(37)		
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	5	12
Zinc (Zn)	ND	100	46000



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Remark : mg/kg = milligram per kilogram
 ++ = Unless the test results were marked with "Δ", Organic tin contents were not directly determined and were derived from migration results of total tin.
 - 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.
 # = The reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).
 Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation. Other Organic tin compounds may be also be present in sample as stated in EN 71-3:2019.

Tested Components:

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1) @	White coating on plastic (pattern of tire of #81506).
SN2	(2) @	Coatings (black, yellow, red) on plastic (pattern of body of #81506).
SN3	(3)	Coatings (silver color, black, red, blue) on plastic (fender, rim of #81506, remote control) (sample weight : 47.2mg).
SN4	(5) @	Red coating on plastic (inner rim of #81088, #81501).
SN5	(6)	Coatings (metallic dark blue, black, red, silver color) on plastic (pattern of body of #81088) (sample weight : 43.1mg).
SN6	(8) @	Coatings (silver color, yellow, black) on plastic (rim of #81086).
SN7	(9)	Coatings (black, silver color, dark red) on plastic (pattern of body of #81086) (sample weight : 38.6mg).
SN8	(11) @	Silver-grey coating on plastic (rim of #81501).
SN9	(12)	Coatings (white, black, silver color, blue, red) on plastic (pattern of body of #81501) (sample weight : 70.2mg).
SN10	(14) @	Orange coating on plastic (light of #81142).
SN11	(15) @	Bright silver color coating on plastic (rim of #81142).
SN12	(16)	Coatings (black, red, silver color, blue) on plastic (pattern of body of #81142) (sample weight : 74.1mg).
SN13	(18)	Blue plastic (body of #81506).
SN14	(19)	Red plastic (switch of #81086, #81088, #81501, #81506).
SN15	(20)	Black plastic (base of all styles).
SN16	(21)	Bright black plastic (window of all styles).
SN17	(22)	Grey plastic excluding coating (rim of #81506).
SN18	(23)	Beige plastic (bridge, adjustment of base of all styles).
SN19	(24)	Semi-transparent plastic (light of #81506).



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Tested Components:

Sequence No.	Test Component No.	Test Component Description(s)
SN20	(25)	Beige plastic (body of #81088).
SN21	(26)	Black plastic (rim of #81088).
SN22	(27)	Silver color plastic (inner rim of #81088).
SN23	(28)	Light grey plastic (inner rim of #81086).
SN24	(29)	Red plastic (body of #81086, #81501).
SN25	(30)	Dark blue plastic (body of #81142).
SN26	(31)	Dark grey plastic excluding coatings (rim of #81501).
SN27	(32)	Matte black plastic (body of remote control).
SN28	(33)	Transparent plastic (light of #81086, #81088, #81142, #81501).
SN29	(34)	White adhesive paper with transparent plastic film and inaccessible coatings (sticker of all styles) (sample weight : 30.7mg).
SN30	(35)	Black 60 °PVC plastic (tire of #81142).
SN31	(36)	Black 70 °PVC plastic (tire of #81086, #81088, #81501, #81506).
SN32	(37)	Black 90 °PVC plastic (outside mirror of #81086, #81088, #81142, #81506).
SN33	(38)	Red 90 °PVC plastic (outside mirror of #81501).
SN34	(39)	Black PVC plastic (antenna of remote control).
SN35	(77)	Transparent adhesive plastic with inaccessible coatings (mirror of all styles) (sample weight : 27.2mg).

@: 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: May 13, 2020
Testing period: May 13, 2020 to May 21, 2020

4 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	
	(1/2/3), (5/6), (8/9), (11/12), (14/15/16), (18+19+20), (21+22+23), (24+25+26), (27+28+29), (30+31+32), (33+35+36), (34), (37+38), (39+77), (40+41+42), (43+44+45), (46+47+48), (49+50+51), (52+53+54), (55+56+57), (58+59+60), (61+62+63), (64+65), (66)to(73)	
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)



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Tested Components:

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1)	White coating on plastic (pattern of tire of #81506).
SN2	(2)	Coatings (black, yellow, red) on plastic (pattern of body of #81506).
SN3	(3)	Coatings (silver color, black, red, blue) on plastic (fender, rim of #81506, remote control).
SN4	(5)	Red coating on plastic (inner rim of #81088, #81501).
SN5	(6)	Coatings (metallic dark blue, black, red, silver color) on plastic (pattern of body of #81088).
SN6	(8)	Coatings (silver color, yellow, black) on plastic (rim of #81086).
SN7	(9)	Coatings (black, silver color, dark red) on plastic (pattern of body of #81086).
SN8	(11)	Silver-grey coating on plastic (rim of #81501).
SN9	(12)	Coatings (white, black, silver color, blue, red) on plastic (pattern of body of #81501).
SN10	(14)	Orange coating on plastic (light of #81142).
SN11	(15)	Bright silver color coating on plastic (rim of #81142).
SN12	(16)	Coatings (black, red, silver color, blue) on plastic (pattern of body of #81142).
SN13	(18)	Blue plastic (body of #81506).
SN14	(19)	Red plastic (switch of #81086, #81088, #81501, #81506).
SN15	(20)	Black plastic (base of all styles).
SN16	(21)	Bright black plastic (window of all styles).
SN17	(22)	Grey plastic excluding coating (rim of #81506).
SN18	(23)	Beige plastic (bridge, adjustment of base of all styles).
SN19	(24)	Semi-transparent plastic (light of #81506).
SN20	(25)	Beige plastic (body of #81088).
SN21	(26)	Black plastic (rim of #81088).
SN22	(27)	Silver color plastic (inner rim of #81088).
SN23	(28)	Light grey plastic (inner rim of #81086).
SN24	(29)	Red plastic (body of #81086, #81501).
SN25	(30)	Dark blue plastic (body of #81142).
SN26	(31)	Dark grey plastic excluding coatings (rim of #81501).
SN27	(32)	Matte black plastic (body of remote control).
SN28	(33)	Transparent plastic (light of #81086, #81088, #81142, #81501).
SN29	(34)	White adhesive paper with transparent plastic film and inaccessible coatings (sticker of all styles).
SN30	(35)	Black 60 °PVC plastic (tire of #81142).
SN31	(36)	Black 70 °PVC plastic (tire of #81086, #81088, #81501, #81506).



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Tests Conducted

Tested Components:

Sequence No.	Test Component No.	Test Component Description(s)
SN32	(37)	Black 90 °PVC plastic (outside mirror of #81086, #81088, #81142, #81506).
SN33	(38)	Red 90 °PVC plastic (outside mirror of #81501).
SN34	(39)	Black PVC plastic (antenna of remote control).
SN35	(40)	Black PVC plastic with white printing (thick wire covering of #81086, #81088, #81501, #81506) (internal).
SN36	(41)	White PVC plastic (wire covering of #81086, #81088, #81501, #81506) (internal).
SN37	(42)	Orange PVC plastic (wire covering of #81086, #81088, #81501, #81506) (internal).
SN38	(43)	Green PVC plastic (wire covering of #81086, #81088, #81501, #81506) (internal).
SN39	(44)	Black PVC plastic (thin wire covering of #81086, #81088, #81501, #81506) (internal).
SN40	(45)	Black PVC plastic (wire covering of remote control) (internal).
SN41	(46)	Red PVC plastic (wire covering of remote control) (internal).
SN42	(47)	Red PVC plastic (wire covering of #81142) (internal).
SN43	(48)	Dark green PVC plastic (wire covering of #81142) (internal).
SN44	(49)	Brown PVC plastic (wire covering of #81142) (internal).
SN45	(50)	Orange PVC plastic (wire covering of #81142) (internal).
SN46	(51)	Dark blue PVC plastic (wire covering of #81142) (internal).
SN47	(52)	Black PVC plastic (wire covering of #81142) (internal).
SN48	(53)	Brown plastic (PCB of all styles) (internal).
SN49	(54)	Green plastic with gold color printing (cover of capacitor of #81142) (internal).
SN50	(55)	Black plastic (base of capacitor of #81142) (internal).
SN51	(56)	Brown plastic (inductor of #81142) (internal).
SN52	(57)	Off-white plastic (lid of motor of #81142) (internal).
SN53	(58)	Beige plastic (lid of motor of all styles) (internal).
SN54	(59)	Semi-transparent beige plastic (side of motor of all styles) (internal).
SN55	(60)	Green plastic with gold color printing (cover of capacitor of #81086, #81088, #81501, #81506) (internal).
SN56	(61)	Black plastic (base of capacitor of #81086, #81088, #81501, #81506) (internal).
SN57	(62)	Brown plastic (inductor of #81086, #81088, #81501, #81506) (internal).
SN58	(63)	Semi-transparent glue (fixture of all styles) (internal).
SN59	(64)	Black plastic (button of PCB of remote control) (internal).
SN60	(65)	Black plastic (contact switch of PCB of remote control) (internal).



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Tested Components:

Sequence No.	Test Component No.	Test Component Description(s)
SN61	(66)	Green/brown PCB (PCB of #81086, #81088, #81501, #81506) (internal).
SN62	(67)	Plastic part of PCB (PCB of #81086, #81088, #81501, #81506) (internal).
SN63	(68)	Plastic part of motor (motor of all styles) (internal).
SN64	(69)	Green/brown PCB (PCB of #81142) (internal).
SN65	(70)	Plastic part of PCB (PCB of #81142) (internal).
SN66	(71)	Plastic part of motor (motor of #81142) (internal).
SN67	(72)	Green/brown PCB (PCB of remote control) (internal).
SN68	(73)	Plastic part of PCB (PCB of remote control) (internal).
SN69	(77)	Transparent adhesive plastic with inaccessible coatings (mirror of all styles).

The Cadmium content test of the tested components (1)to(3), (5), (6), (8), (9), (11), (12), (14)to(16) were conducted in composite for the materials which sample size is not sufficient to carry out the test individually.

Date sample received: May 13, 2020
Testing period: May 13, 2020 to May 21, 2020

5 Phthalate Content

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

For 4 phthalates

Test Item	CAS No.	Result (%)	Reporting Limit (%)	Limit (%)
		Tested Component (40+41+42), (43+44+45), (46+47+48), (49+50), (51+52), (53+54+55), (56+57+58), (59+60+61), (62+63+64), (65)to(73)		
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



Test Report

Number: GZHH00363334

Tests Conducted

For 7 phthalates

Test Item	CAS No.	Result (%)	Reporting Limit (%)	Limit (%)
		Tested Component (4+7+10), (13+17), (18+19+20), (21+22+23), (24+25+26), (27+28+29), (30+31), (32+33), (34), (35+36+37), (38+39+77)		
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	ND	0.005	--
Di-n-octyl phthalate(DNOP)	117-84-0	ND	0.005	--
Di-iso-decyl phthalate (DIDP)	26761-40-0	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 Components:

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(4)	Coatings (silver color, black, red, blue, white, yellow) on plastic (fender, rim, pattern of body, tire of #81506, remote control).
SN2	(7)	Coatings (metallic dark blue, black, red, silver color) on plastic (pattern of body, inner rim of #81088).
SN3	(10)	Coatings (black, silver color, dark red, yellow) on plastic (pattern of body, rim of #81086).
SN4	(13)	Coatings (white, black, silver color, blue, red, silver-grey) on plastic (pattern of body, rim of #81501).
SN5	(17)	Coatings (black, red, silver color, blue, orange) on plastic (pattern of body, rim, light of #81142).
SN6	(18)	Blue plastic (body of #81506).



Test Report

Number: GZHH00363334

Tests Conducted

Tested Components:

Sequence No.	Test Component No.	Test Component Description(s)
SN7	(19)	Red plastic (switch of #81086, #81088, #81501, #81506).
SN8	(20)	Black plastic (base of all styles).
SN9	(21)	Bright black plastic (window of all styles).
SN10	(22)	Grey plastic excluding coating (rim of #81506).
SN11	(23)	Beige plastic (bridge, adjustment of base of all styles).
SN12	(24)	Semi-transparent plastic (light of #81506).
SN13	(25)	Beige plastic (body of #81088).
SN14	(26)	Black plastic (rim of #81088).
SN15	(27)	Silver color plastic (inner rim of #81088).
SN16	(28)	Light grey plastic (inner rim of #81086).
SN17	(29)	Red plastic (body of #81086, #81501).
SN18	(30)	Dark blue plastic (body of #81142).
SN19	(31)	Dark grey plastic excluding coatings (rim of #81501).
SN20	(32)	Matte black plastic (body of remote control).
SN21	(33)	Transparent plastic (light of #81086, #81088, #81142, #81501).
SN22	(34)	White adhesive paper with transparent plastic film and inaccessible coatings (sticker of all styles).
SN23	(35)	Black 60 °PVC plastic (tire of #81142).
SN24	(36)	Black 70 °PVC plastic (tire of #81086, #81088, #81501, #81506).
SN25	(37)	Black 90 °PVC plastic (outside mirror of #81086, #81088, #81142, #81506).
SN26	(38)	Red 90 °PVC plastic (outside mirror of #81501).
SN27	(39)	Black PVC plastic (antenna of remote control).
SN28	(40)	Black PVC plastic with white printing (thick wire covering of #81086, #81088, #81501, #81506) (internal).
SN29	(41)	White PVC plastic (wire covering of #81086, #81088, #81501, #81506) (internal).
SN30	(42)	Orange PVC plastic (wire covering of #81086, #81088, #81501, #81506) (internal).
SN31	(43)	Green PVC plastic (wire covering of #81086, #81088, #81501, #81506) (internal).
SN32	(44)	Black PVC plastic (thin wire covering of #81086, #81088, #81501, #81506) (internal).
SN33	(45)	Black PVC plastic (wire covering of remote control) (internal).
SN34	(46)	Red PVC plastic (wire covering of remote control) (internal).
SN35	(47)	Red PVC plastic (wire covering of #81142) (internal).
SN36	(48)	Dark green PVC plastic (wire covering of #81142) (internal).
SN37	(49)	Brown PVC plastic (wire covering of #81142) (internal).
SN38	(50)	Orange PVC plastic (wire covering of #81142) (internal).



Test Report

Number: GZHH00363334

Tests Conducted

Tested Components:

Sequence No.	Test Component No.	Test Component Description(s)
SN39	(51)	Dark blue PVC plastic (wire covering of #81142) (internal).
SN40	(52)	Black PVC plastic (wire covering of #81142) (internal).
SN41	(53)	Brown plastic (PCB of all styles) (internal).
SN42	(54)	Green plastic with gold color printing (cover of capacitor of #81142) (internal).
SN43	(55)	Black plastic (base of capacitor of #81142) (internal).
SN44	(56)	Brown plastic (inductor of #81142) (internal).
SN45	(57)	Off-white plastic (lid of motor of #81142) (internal).
SN46	(58)	Beige plastic (lid of motor of all styles) (internal).
SN47	(59)	Semi-transparent beige plastic (side of motor of all styles) (internal).
SN48	(60)	Green plastic with gold color printing (cover of capacitor of #81086, #81088, #81501, #81506) (internal).
SN49	(61)	Black plastic (base of capacitor of #81086, #81088, #81501, #81506) (internal).
SN50	(62)	Brown plastic (inductor of #81086, #81088, #81501, #81506) (internal).
SN51	(63)	Semi-transparent glue (fixture of all styles) (internal).
SN52	(64)	Black plastic (button of PCB of remote control) (internal).
SN53	(65)	Black plastic (contact switch of PCB of remote control) (internal).
SN54	(66)	Green/brown PCB (PCB of #81086, #81088, #81501, #81506) (internal).
SN55	(67)	Plastic part of PCB (PCB of #81086, #81088, #81501, #81506) (internal).
SN56	(68)	Plastic part of motor (motor of all styles) (internal).
SN57	(69)	Green/brown PCB (PCB of #81142) (internal).
SN58	(70)	Plastic part of PCB (PCB of #81142) (internal).
SN59	(71)	Plastic part of motor (motor of #81142) (internal).
SN60	(72)	Green/brown PCB (PCB of remote control) (internal).
SN61	(73)	Plastic part of PCB (PCB of remote control) (internal).
SN62	(77)	Transparent adhesive plastic with inaccessible coatings (mirror of all styles).

Date sample received : May 13, 2020

Testing period : May 13, 2020 to May 19, 2020



Test Report

Number: GZHH00363334

Tests Conducted

6 Phthalates Content

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

Test item	Result (%)	Reporting limit (%)
	Tested component	
	(4+7+10), (13+17), (18+19+20), (21+22+23), (24+25+26), (27+28+29), (30+31), (32+33), (34), (35+36+37), (38+39+77), (40+41+42), (43+44+45), (46+47+48), (49+50), (51+52), (53+54+55), (56+57+58), (59+60+61), (62+63+64), (65)to(73)	
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	(4)	Coatings (silver color, black, red, blue, white, yellow) on plastic (fender, rim, pattern of body, tire of #81506, remote control).
SN2	(7)	Coatings (metallic dark blue, black, red, silver color) on plastic (pattern of body, inner rim of #81088).
SN3	(10)	Coatings (black, silver color, dark red, yellow) on plastic (pattern of body, rim of #81086).
SN4	(13)	Coatings (white, black, silver color, blue, red, silver-grey) on plastic (pattern of body, rim of #81501).
SN5	(17)	Coatings (black, red, silver color, blue, orange) on plastic (pattern of body, rim, light of #81142).
SN6	(18)	Blue plastic (body of #81506).
SN7	(19)	Red plastic (switch of #81086, #81088, #81501, #81506).
SN8	(20)	Black plastic (base of all styles).
SN9	(21)	Bright black plastic (window of all styles).
SN10	(22)	Grey plastic excluding coating (rim of #81506).
SN11	(23)	Beige plastic (bridge, adjustment of base of all styles).
SN12	(24)	Semi-transparent plastic (light of #81506).
SN13	(25)	Beige plastic (body of #81088).
SN14	(26)	Black plastic (rim of #81088).



Test Report

Number: GZHH00363334

Tests Conducted

Tested Components:

Sequence No.	Test Component No.	Test Component Description(s)
SN15	(27)	Silver color plastic (inner rim of #81088).
SN16	(28)	Light grey plastic (inner rim of #81086).
SN17	(29)	Red plastic (body of #81086, #81501).
SN18	(30)	Dark blue plastic (body of #81142).
SN19	(31)	Dark grey plastic excluding coatings (rim of #81501).
SN20	(32)	Matte black plastic (body of remote control).
SN21	(33)	Transparent plastic (light of #81086, #81088, #81142, #81501).
SN22	(34)	White adhesive paper with transparent plastic film and inaccessible coatings (sticker of all styles).
SN23	(35)	Black 60 °PVC plastic (tire of #81142).
SN24	(36)	Black 70 °PVC plastic (tire of #81086, #81088, #81501, #81506).
SN25	(37)	Black 90 °PVC plastic (outside mirror of #81086, #81088, #81142, #81506).
SN26	(38)	Red 90 °PVC plastic (outside mirror of #81501).
SN27	(39)	Black PVC plastic (antenna of remote control).
SN28	(40)	Black PVC plastic with white printing (thick wire covering of #81086, #81088, #81501, #81506) (internal).
SN29	(41)	White PVC plastic (wire covering of #81086, #81088, #81501, #81506) (internal).
SN30	(42)	Orange PVC plastic (wire covering of #81086, #81088, #81501, #81506) (internal).
SN31	(43)	Green PVC plastic (wire covering of #81086, #81088, #81501, #81506) (internal).
SN32	(44)	Black PVC plastic (thin wire covering of #81086, #81088, #81501, #81506) (internal).
SN33	(45)	Black PVC plastic (wire covering of remote control) (internal).
SN34	(46)	Red PVC plastic (wire covering of remote control) (internal).
SN35	(47)	Red PVC plastic (wire covering of #81142) (internal).
SN36	(48)	Dark green PVC plastic (wire covering of #81142) (internal).
SN37	(49)	Brown PVC plastic (wire covering of #81142) (internal).
SN38	(50)	Orange PVC plastic (wire covering of #81142) (internal).
SN39	(51)	Dark blue PVC plastic (wire covering of #81142) (internal).
SN40	(52)	Black PVC plastic (wire covering of #81142) (internal).
SN41	(53)	Brown plastic (PCB of all styles) (internal).
SN42	(54)	Green plastic with gold color printing (cover of capacitor of #81142) (internal).



Test Report

Number: GZHH00363334

Tests Conducted

Tested Components:

Sequence No.	Test Component No.	Test Component Description(s)
SN43	(55)	Black plastic (base of capacitor of #81142) (internal).
SN44	(56)	Brown plastic (inductor of #81142) (internal).
SN45	(57)	Off-white plastic (lid of motor of #81142) (internal).
SN46	(58)	Beige plastic (lid of motor of all styles) (internal).
SN47	(59)	Semi-transparent beige plastic (side of motor of all styles) (internal).
SN48	(60)	Green plastic with gold color printing (cover of capacitor of #81086, #81088, #81501, #81506) (internal).
SN49	(61)	Black plastic (base of capacitor of #81086, #81088, #81501, #81506) (internal).
SN50	(62)	Brown plastic (inductor of #81086, #81088, #81501, #81506) (internal).
SN51	(63)	Semi-transparent glue (fixture of all styles) (internal).
SN52	(64)	Black plastic (button of PCB of remote control) (internal).
SN53	(65)	Black plastic (contact switch of PCB of remote control) (internal).
SN54	(66)	Green/brown PCB (PCB of #81086, #81088, #81501, #81506) (internal).
SN55	(67)	Plastic part of PCB (PCB of #81086, #81088, #81501, #81506) (internal).
SN56	(68)	Plastic part of motor (motor of all styles) (internal).
SN57	(69)	Green/brown PCB (PCB of #81142) (internal).
SN58	(70)	Plastic part of PCB (PCB of #81142) (internal).
SN59	(71)	Plastic part of motor (motor of #81142) (internal).
SN60	(72)	Green/brown PCB (PCB of remote control) (internal).
SN61	(73)	Plastic part of PCB (PCB of remote control) (internal).
SN62	(77)	Transparent adhesive plastic with inaccessible coatings (mirror of all styles).

Date sample received : May 13, 2020

Testing period : May 13, 2020 to May 19, 2020



Test Report

Number: GZHH00363334

Tests Conducted

7 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		
	(3), (6), (12+16), (18+19), (20+21), (22+23), (24+25), (26+27), (28+29), (30+31), (32+39), (33+35), (36+37), (38)		
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)	Coatings (silver color, black, red, blue) on plastic (fender, rim of #81506, remote control).
SN2	(6)	Coatings (metallic dark blue, black, red, silver color) on plastic (pattern of body of #81088).
SN3	(12)	Coatings (white, black, silver color, blue, red) on plastic (pattern of body of #81501).
SN4	(16)	Coatings (black, red, silver color, blue) on plastic (pattern of body of #81142).
SN5	(18)	Blue plastic (body of #81506).
SN6	(19)	Red plastic (switch of #81086, #81088, #81501, #81506).
SN7	(20)	Black plastic (base of all styles).
SN8	(21)	Bright black plastic (window of all styles).
SN9	(22)	Grey plastic excluding coating (rim of #81506).
SN10	(23)	Beige plastic (bridge, adjustment of base of all styles).
SN11	(24)	Semi-transparent plastic (light of #81506).
SN12	(25)	Beige plastic (body of #81088).
SN13	(26)	Black plastic (rim of #81088).



Test Report

Number: GZHH00363334

Tests Conducted

Tested Component(s):

Sequence No.	Test Component No.	Test Component Description(s)
SN14	(27)	Silver color plastic (inner rim of #81088).
SN15	(28)	Light grey plastic (inner rim of #81086).
SN16	(29)	Red plastic (body of #81086, #81501).
SN17	(30)	Dark blue plastic (body of #81142).
SN18	(31)	Dark grey plastic excluding coatings (rim of #81501).
SN19	(32)	Matte black plastic (body of remote control).
SN20	(33)	Transparent plastic (light of #81086, #81088, #81142, #81501).
SN21	(35)	Black 60 °PVC plastic (tire of #81142).
SN22	(36)	Black 70 °PVC plastic (tire of #81086, #81088, #81501, #81506).
SN23	(37)	Black 90 °PVC plastic (outside mirror of #81086, #81088, #81142, #81506).
SN24	(38)	Red 90 °PVC plastic (outside mirror of #81501).
SN25	(39)	Black PVC plastic (antenna of remote control).

Date sample received: May 13, 2020
Testing period: May 13, 2020 to May 26, 2020



Test Report

Number: GZHH00363334

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 (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification.

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