

Test Report

Number: GZHH00350039

Applicant: ZILE TOYS FACTORY
CHENGHAI DISTRICT, SHANTOU CITY,
GUANGDONG PROVINCE, CHINA

Date: Dec 30, 2019

Sample Description:

Two (2) sets of submitted sample said to be :

Item Name : **Toy Car Series**

Item No. : 5571A, 5571B, 5572A, 5572B, 5573A, 5573B, 5575A, 5575B, 5575D, 5576ABCD, 5577A, 5577B, 5577D, 5578A, 5579-1, 329-2, 8801A, 8801B, 8802A, 8803ABCD, 8806ABCD, 8807A, 8809A, 8809B, 0161, 0162, 0163, 0165A, 0169, 9901A, 9902A, 9903A, 9905A, 9907A, 235A, 238A, 239A, 235B, 239B, 236B, 237A, KY321A, KY321B, KY322B, KY323A, KY325ABC, KY327A, KY327B, KY327C, KY327D, KY323B, KY326ABCD, KY329A, KY329B, 329-1, 001A, 002A, 003A, 005A, 006A, 007A, 008A, 009A, 001B, 002B, 003B, 005B, 006B, 007B, 008B, 009B, 356802, 28986, 325005, 322988, 2077A, 2073A, 2078A, 2072A, 2079A, 2071A, 2076A, 2075A

Above sample information is submitted and/or identified by client

Applicant Specified Age : Over 18 months

Grading for Testing

Country of Origin : China



Intertek authenticates the photo on original report only

Tests conducted:

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

To be continued



Test Report

Number: GZHH00350039

Conclusion:

<u>Tested sample</u> Tested component(s) of submitted sample sets	<u>Standard</u>	<u>Result</u>
	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
	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

Approved:




Jimly Lin
Sr. Technical Support



Test Report

Number: GZHH00350039

Tests Conducted

1 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			
	(1)	(5)to(20)		
Aluminium (Al)	3829	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)	ND	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	ND	100	46000

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.



Test Report

Number: GZHH00350039

Tests Conducted

Tested Component(s):

- (1) Silver color coating on plastic (window, grille, wheel of green truck, red crane, orange excavator, yellow mixer, window of blue helicopter, blue car, green car) (sample weight :23.1 mg).
- (2) @Dark pink coating on plastic (pattern of green truck).
- (3) @Black coating on plastic (letter of red crane, orange excavator).
- (4) @Coatings (black, white) on plastic (pattern, window, wheel of red ladder truck, green mixer, yellow crane, orange truck, blue helicopter, blue car, green car).
- (5) White paper label with transparent plastic film and inaccessible coatings (sticker of green truck, red crane, orange excavator, yellow mixer, tank of) (sample weight : 30.1mg).
- (6) Semi-transparent red plastic (light of green truck, red crane, orange excavator, yellow mixer).
- (7) Semi-transparent blue plastic (light of green truck, red crane, orange excavator, yellow mixer).
- (8) Black plastic (chassis, wheel of all styles).
- (9) Grass green plastic (head of green truck).
- (10) Dark red plastic (head of red crane)
- (11) Bright orange plastic (head of orange excavator).
- (12) Bright yellow plastic (head of yellow mixer).
- (13) White plastic (wagon of green truck, tank of green mixer, fastener of hook of yellow crane).
- (14) Blue plastic (base of hook of red crane, bucket of orange excavator, ladder of red ladder truck, body of blue helicopter, blue car).
- (15) Yellow plastic (hook of red crane, base of bucket of orange excavator, base of ladder of red ladder truck, body of yellow crane, propeller, wheel of blue helicopter).
- (16) Red plastic (tank of mixer, body of red ladder truck, fastener of tank of green mixer, hook of yellow crane, wagon of orange truck).
- (17) Green plastic (body of green mixer).
- (18) Orange plastic (body of orange truck).
- (19) Dark green plastic (body of green car).
- (20) Transparent plastic (window of red ladder truck, green mixer, yellow crane, orange truck).

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

Remark: As requested by the applicant, toxic elements content test were conducted only components listed in this report. Other components were not tested.

(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).



Test Report

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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: Dec 24, 2019
Testing period: Dec 24, 2019 to Dec 27, 2019

2 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			
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Testing period: Dec 24, 2019 to Dec 27, 2019

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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