



中国认可  
国际互认  
检测  
TESTING  
CNAS L4735

# Test Report

No.: AJT201219001E

Applicant Name : SHANTOU CHENGHAI DISTRICT QICHEN TOY FACTORY  
 Applicant Address : NORTH OF THE OFFICE BUILDING OF AGRICULTURAL MACHINERY AND EQUIPMENT GENERAL FACTORY, YIMIN DONGGANG ROAD, FENGXIANG STREET, CHENGHAI DISTRICT, SHANTOU CITY

The following samples were submitted and identified by/on behalf of the client as:

Sample Description : BUILDING BLOCKS, BUILDING BLOCKS TRACK  
 Item No. : Please refer to the last page  
 Client Specified Age Grade : Over 3 years (the test age grade is applied by client)  
 Tested Age Grade : 3+  
 Sample Received Date : 2020-12-19  
 Testing Completed Date : 2021-01-02

Test Conducted: As required by the client, please refer to the following page(s) for details.

Test Requested :	Conclusion
European Standard on Safety of Toys:	
EN71-1:2014+A1:2018 Mechanical and Physical Properties	PASS (see remark 1)
EN71-2:2011+A1:2014-Flammability	PASS (see remark 1)
Directive 2009/48/EC and its amendment Commission Directive (EU) 2019/1922 and EN71-3:2019 - Migration of Certain Elements	PASS (see remark 1)

**Remark 1:**

- As required by the client, only specified samples in sample photo(s) except the photos marked 1-2 were tested.
- As requested by the applicant. Toxic elements content test was conducted only components listed in this report. Other components were not tested.

Signed for and on behalf of  
 AJT TESTING SERVICES LIMITED



Senior Technical Representative  
 CNAS Approved Signatory

2021-01-06

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## Test Results:

Mechanical and physical properties

- As Specified in European Standard on Safety of Toys EN71-1:2014+A1:2018.

Section	Description	Result(s)
4	General requirements	
4.1	Material cleanliness	Pass
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 & 7.6	Edges	Pass
4.8 & 7.6	Points and metallic wires	Pass
4.8e	Splinters	NA
4.9	Protruding parts	Pass
4.10	Parts moving against each other	
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	Pass
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12 & 7.3	Balloons	NA
4.13 & 7.9	Cord of toy kites and other flying toys	NA
4.14	Enclosures	
4.14.1	Toys which a child can enter	NA

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Section	Description	Result(s)
4.14.2 & 7.8	Masks and helmets	NA
4.15	Toys intended to bear the mass of a child	
4.15.1	Toys propelled by a child or by other means	NA
4.15.1.2 & 7.10.1 & 7.10.2 & 7.10.3 & 7.10.4 & 7.16	Warnings and Instructions for use	NA
4.15.1.3	Strength	NA
4.15.1.4	Stability	NA
4.15.1.5	Braking	NA
4.15.1.6	Transmission and wheel arrangement	NA
4.15.1.7	Adjustable seat pillar and handlebar stem minimum insertion marks	NA
4.15.1.8	Electrically-driven ride-on toys	NA
4.15.2	Toy bicycles	
4.15.2.2 & 7.15	Warnings and instructions for use	NA
4.15.2.3	Braking requirements	NA
4.15.3 & 7.16 & 7.19	Rocking horses and similar toys	NA
4.15.4 & 7.16	Toys not propelled by a child	NA
4.15.5 & 7.18	Toy scooters	NA
4.16	Heavy immobile toys	NA
4.17	Projectile toys	
4.17.1	General	NA
4.17.2	All projectiles	NA
4.17.3 & 7.7	Projectile toys with stored energy	NA
4.17.4 & 7.26	Certain projectile toys without stored energy	NA
4.18 & 7.4	Aquatic toys and inflatable toys	NA

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Section	Description	Result(s)
4.19 & 7.13 & 7.14	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20.2.1-4.20.2.5* 4.20.2.6-4.20.2.8, 4.20.2.10, 4.20.2.12*	Acoustics	Pass
4.20.2.9, 4.20.2.11 & 7.14	Acoustics – percussion toys & cap-firing toys	NA
4.21	Toys containing a non-electrical heat source	NA
4.22 & 7.2	Small balls	NA
4.23	Magnets	
4.23.2 a, b & c	Toys other than magnetic / electrical experimental sets intended for children over 8 years	NA
4.23.3 & 7.20	Magnetic / electrical experimental sets intended for children over 8 years	NA
4.24	Yo-yo ball	NA
4.25	Toys attached to food	NA
4.26	Toy Disguise Costumes	NA
4.27	Flying toys	
4.27.1	General	NA
4.27.2 & 7.25.1	Rotors and propellers on flying toys	NA
4.27.3 & 7.25.2	Rotors and propellers on remote controlled flying toys	NA
5	Toys intended for children under 36 months	
5.1	General requirements	NA
5.1a	Small parts – as received	NA
5.1b	Small parts, sharp points, sharp edges – after tests	NA
5.1c	Cross section <2mm metal points & wires	NA
5.1e	Toys contain glue	NA
5.1f	Casing of toys	NA

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Section	Description	Result(s)
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	
5.4.1	General	NA
5.4.2	Cords and chains in toys intended for children under 18 months	NA
5.4.3 & 7.22	Cords and chains in toys intended for children of 18 months or over but under 36 months	NA
5.4.4	Fixed loops, tangled loops and nooses	NA
5.4.5	Cords and chains on pull along toys	NA
5.4.6 & 7.21	Electrical cables	NA
5.4.7	Cross-sectional dimension of certain cords	NA
5.4.8	Self-retracting cords	NA
5.4.9 & 7.11 & 7.23	Toys attached to or intended to be strung across a cradle, cot or perambulator	NA
5.5 & 7.12	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 & 7.17	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 & 7.24	Sledges with cords for pulling	NA

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Section	Description	Result(s)
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	Pass
7.2	Toys not intended for children under 36 months	Pass
7.5	Functional toys	NA

## Remark 2:

According to toy safety directive 2009/48/EC, the following information about marking of toys should be presented: The manufacturer's and importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.

## Flammability

- As Specified in European Standard on Safety of Toys EN71-2:2011+A1:2014.

Section	Description	Result(s)
4.1	General requirements	Pass
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

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## Specimen List:

No.	Description
1	Deep-red plastic (oblong railway)
2	Light-blue plastic (semicircular railway)
3	Deep-green plastic (semicircular railway)
4	Deep-yellow plastic (oblong railway)
5	Purple plastic
6	White plastic
7	Black plastic
8	Orange plastic

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As per EN71-3:2019 and followed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), Inductively Coupled Plasma Mass Spectrometry (ICP-MS), Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry (IC-ICP-MS), Ion Chromatography- Ultraviolet / Diode-Array-Detector (IC-UV/DAD), and Gas Chromatographic - Mass Spectrometry.

Category (III): Scraped-off toy materials

Test item(s)	Results (mg/kg)					Reporting limit (mg/kg)	Standard limit (mg/kg)
	1	2	3	4	5		
Aluminium(Al)	ND	ND	ND	ND	ND	100	28130
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	100	18750
Boron(B)	ND	ND	ND	ND	ND	100	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	0.0025	0.053
Cobalt(Co)	ND	ND	ND	ND	ND	10	130
Copper(Cu)	ND	ND	ND	ND	ND	100	7700
Lead(Pb)	ND	ND	ND	ND	ND	5	23
Manganese (Mn)	ND	ND	ND	ND	ND	100	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	0.2	12
Zinc(Zn)	ND	ND	ND	ND	ND	100	46000

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Test item(s)	Results (mg/kg)			Reporting limit (mg/kg)	Standard limit (mg/kg)
	6	7	8		
Aluminium(Al)	ND	ND	ND	100	28130
Antimony(Sb)	ND	ND	ND	10	560
Arsenic(As)	ND	ND	ND	10	47
Barium(Ba)	ND	ND	ND	100	18750
Boron(B)	ND	ND	ND	100	15000
Cadmium(Cd)	ND	ND	ND	5	17
Chromium (III) (Cr III)	ND	ND	ND	10	460
Chromium (VI) (Cr VI)	ND	ND	ND	0.0025	0.053
Cobalt(Co)	ND	ND	ND	10	130
Copper(Cu)	ND	ND	ND	100	7700
Lead(Pb)	ND	ND	ND	5	23
Manganese (Mn)	ND	ND	ND	100	15000
Mercury(Hg)	ND	ND	ND	10	94
Nickel(Ni)	ND	ND	ND	10	930
Selenium(Se)	ND	ND	ND	10	460
Strontium(Sr)	ND	ND	ND	100	56000
Tin(Sn)	ND	ND	ND	2.5	180000
Organic Tin	ND	ND	ND	0.2	12
Zinc(Zn)	ND	ND	ND	100	46000

Note(s):

- ND = Not Detected (less than reporting limit)
- mg/kg = milligram per kilogram
- Migration of Chromium (III) = Migration of total Chromium – Migration of Chromium (VI)
- Organic tin were derived from migration results of total tin respectively.
- NA = Not Applicable
- " \* " The item is not in the scope of CNAS.

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Sample Photo(s):



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END OF TEST REPORT

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