

TEST REPORT

Report No. AL25020171501ENR

Approved date: Mar. 6, 2025

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Applicant Guangdong Zhutong Toys Co., Ltd
Address No. 21, Zone 3, Dazha Industrial Area, Lecong Town, Shunde District, Foshan City, Guangdong Province China



The following submitted sample(s) was/were identified by/on behalf of the applicant as

Sample Name Architect DIY Toy Set
Item No. MML001
Manufacturer Guangdong Zhutong Toys Co., Ltd
Age 4+
Country of origin China
Country of destination America

Summary

Date Received Feb. 24, 2025
Test Period Feb. 24, 2025 to Mar. 4, 2025
Test Request As per specified by applicant, please refer to the following page.

For more information about the test, please refer to the following pages.

Compiled Wang zhen
By _____

Checked He hai ying
By _____

Approved Jiang He
By _____



Signed for and on behalf of
Shanghai Lelang Testing Technology Co., Ltd

Room 101-103 of 1st Floor and 2nd-3rd Floor, Building 4, No.158, Jinfeng Road, Pudong District, Shanghai, China

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Test request	As per specified by applicant, the following tests were conducted:	Conclusion
1.	Standard Consumer Safety Specification for Toy Safety of ASTM F963-23	
	--Physical and mechanical test	PASS
	--Flammability test	PASS
	--Heavy Elements test	PASS
2.	Consumer Product Safety Improvement Act of 2008 (CPSIA)	
	--Sec. 101 Children's products containing lead; lead paint rule	PASS
	--Sec. 108 Prohibition on sale of certain products containing specified phthalates	PASS
3.	Safe Drinking Water and Toxic Enforcement Act of 1986 of California Proposition 65	
	--Total Lead content	PASS
	--Phthalates (6P) content	PASS

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Sample Photo(s)

Lelangtek authenticated the photo on original report only

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Summary of test results:

1 Standard Consumer Safety Specification for Toy Safety of ASTM F963-23

1.1 Physical and mechanical test

Age grading applied in testing: Over 4 years of age

1.1.1 Applicable requirements for before and after normal use and abuse test

Section	Test Item	Result
4	Safety Requirements	
4.1	Material Quality	PASS
4.3	Toxicology	
4.3.2	Manufacturing and Packaging of Food	N/A
4.3.3	Indirect Food Additives	N/A
4.3.4	Cosmetics	N/A
4.3.5	Heavy Elements	
4.3.5.1	Paint and Similar Surface-coating Materials	N/A
4.3.5.2	Toy Substrate Materials	PASS(See Result Page)
4.3.6	Cosmetics, Liquids, Pastes, Putties, Gels, Powders, and Items of Avian Feather Origin	N/A
4.3.7	Stuffing materials	N/A
4.3.8	Phthalates	PASS(See Result Page)
4.5	Sound-producing Toys	N/A
4.6	Small Objects	
4.6.1	Toys Intended for Children under 36 Months (Small Objects)	N/A
4.6.2	Mouth-actuated Toys	N/A
4.6.3	Toys And Games for 36 Months to 72 Months (Small Part Warning)	PASS
4.7	Accessible Edges	PASS
4.8	Projections	N/A
4.9	Accessible Points	PASS
4.10	Wires or Rods	N/A
4.11	Nails And Fasteners	N/A
4.12	Plastic Film	PASS
4.13	Folding Mechanisms and Hinges	N/A

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Section	Test Item	Result
4.14	Cords, Straps, and Elastics	N/A
4.15	Stability and Over-load Requirements	N/A
4.16	Confined Spaces	N/A
4.17	Wheels, Tires and Axles	N/A
4.18	Holes, Clearance, and Accessibility of Mechanisms	N/A
4.19	Simulated Protective Devices	N/A
4.20	Pacifiers	N/A
4.21	Projectile Toys	N/A
4.22	Teethers and Teething Toys	N/A
4.23	Rattles	N/A
4.24	Squeeze Toys	N/A
4.25	Battery-operated Toys	N/A
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed and Beanbag-type Toys	N/A
4.28	Stroller and Carriage Toys	N/A
4.29	Art Materials	N/A
4.30	Toy Gun Marking	N/A
4.31	Balloons	N/A
4.32	Certain Toys with Nearly Spherical Ends	N/A
4.33	Marbles	N/A
4.34	Balls	N/A
4.35	Pompoms	N/A
4.36	Hemispheric-shaped Objects	N/A
4.37	Yo Yo Elastic Tether Toys	N/A
4.38	Magnets	N/A
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A
4.40	Expanding Materials	N/A
4.41	Toy Chests	N/A
5	Labeling Requirements	
5.1.2	Tracking label	PASS

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Section	Test Item	Result
5.2	Age Grading Labeling	PASS
5.3	Safety Labeling Requirements	PASS
5.4	Aquatic Toys	N/A
5.5	Crib and Playpen Toys	N/A
5.6	Mobiles	N/A
5.7	Stroller and Carriage Toys	N/A
5.8	Toys Intended to be Assembled By an Adult	N/A
5.9	Simulated Protective Devices	N/A
5.10	Toys with Functional Sharp Edges or Points (48 and 96 months)	PASS
5.11	Small Objects, Small Balls, Marbles, and Balloons	PASS
5.12	Art Materials	N/A
5.13	Electric Toys	N/A
5.14	Battery-operated Toys	N/A
5.15	Promotional Materials	N/A
5.16	Magnets	N/A
6	Instructional Literature	
6.1	Definition and Description	PASS
6.2	Crib and Playpen Toys	N/A
6.3	Mobiles	N/A
6.4	Toys Intended to be Assembled By an Adult	N/A
6.5	Battery-Operated Toys	
6.5.1	Do not mix old and new batteries.	N/A
6.5.2	Do not mix alkaline, standard (carbon-zinc), or rechargeable batteries.	N/A
6.6	Battery-powered Ride-on Toys	N/A
6.7	Toys in Contact with Food	N/A
6.8	Toy Chests	N/A
6.9	The instructional material for toys which require a manufacturer-supplied specialty or custom tool to access the battery(ies) shall direct caregivers to retain the tool for future use, to store it where the child cannot access it, and state that the tool is not a toy.	N/A

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Section	Test Item	Result
7	Producer's Markings	
7.1	Either a principal component of a toy or the package of toy shall be marked with the name and address of the producer or the distributor	PASS
7.2	Battery-powered Ride-on Toys	N/A
7.3	Toy Chests	N/A

Note:N/A=Not applicable.

1.1.2 Normal use and abuse test

Section	Title	Test condition
8.5	Normal Use Testing	/
8.6	Abuse Testing	/
8.7	Impact Tests	3.0 ft, 4times
8.8	Torque Tests for Removal of Components	4 in.lbf, 10 sec.
8.9	Tension Test for Removal of Components	15 lbf, 10 sec.

1.2 Flammability Test

Refer to: ASTM F963-23 Section 4.2

Test method: As per section 4.2 of the ASTM standard Consumer Safety Specification For Toy Safety F963-23, the sample was tested according to Annex A5 flammability testing procedure for solids and soft toys.

Ignition Point	Burn length (inch)	Time (sec)	Burn Rate (inch/sec)	Limit (inch/sec)	Test result
End(Plastic car)	1.8	60	0.03	0.1	PASS
End(Sky blue plastic bucket-handle)	2.0	60	0.03	0.1	PASS
End(Earthy plastic boat)	/	/	DNI	0.1	PASS
End(Wooden frame)	/	/	DNI	0.1	PASS
End(Plastic coconut palm-leaves)	2.8	60	0.05	0.1	PASS
End(Shovel-wooden pole)	/	/	DNI	0.1	PASS

Note:

- (1) DNI=Did Not Ignite.
- (2) All styles of the submitted toy samples were tested,the above result only showed the most severe burn rate of the sample.

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1.3 Heavy Elements test

Refer to: ASTM F963-23 Section 4.3.5.1&4.3.5.2

Test method: ASTM F963-23 Section 8.3

Instrument: X-ray fluorescence (XRF) & Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)

1.3.1 Total lead test

Toy Substrate Materials

Component No.	Test Item & Result (Unit:mg/kg)
	Total Lead(T-Pb)
1	ND
2	ND
3	ND
4	ND
5	37*
6	ND
7	ND
8	ND
9	ND
10	ND
Detection limit	XRF(See note 3) & 10(Chemistry method)
Limit	≤100

Note:

- (1) mg/kg = ppm=parts per million.
- (2) ND = Not detected, the test result(s) is/are below the detection limit.
- (3) The general approach in that case is to consider any XRF result to be indeterminate and in need of digestion and ICP analysis if that result falls within 30 percent of the Consumer Product Safety Improvement Act (CPSIA) limit.
- (4) *=Denotes as reported result(s) was(were) performed by wet chemistry method. Others were screened by XRF.

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1.3.2 Soluble element test for Surface Coatings and Substrates Other Than Modeling Clay

Component No.	Test Item & Result (Unit:mg/kg)							
	Antimony (Sb)	Arsenic (As)	Barium (Ba)	Cadmium (Cd)	Chromium (Cr)	Lead (Pb)	Mercury (Hg)	Selenium (Se)
1	ND	ND	ND	ND	ND	ND	ND	ND
2	ND	ND	ND	ND	ND	ND	ND	ND
3	ND	ND	ND	ND	ND	ND	ND	ND
4	ND	ND	ND	ND	ND	ND	ND	ND
5	ND	ND	ND	ND	ND	ND	ND	ND
6	ND	ND	ND	ND	ND	ND	ND	ND
7	ND	ND	ND	ND	ND	ND	ND	ND
8	ND	ND	ND	ND	ND	ND	ND	ND
9	ND	ND	ND	ND	ND	ND	ND	ND
10	ND	ND	ND	ND	ND	ND	ND	ND
Detection limit	6.0	2.5	25	5.0	2.5	9.0	2.5	50
Limit	≤60	≤25	≤1000	≤75	≤60	≤90	≤60	≤500

Note:

- (1) mg/kg = ppm=parts per million.
- (2) ND = Not detected, the test result(s) is/are below the detection limit.
- (3) According to ASTM F963-23, in the case where there is between 10mg and 100 mg of uniform material the mass of the test portion shall be reported in the test report and the quantity of the appropriate elements shall be calculated and reported as if 100 mg of the test portion had been used.
- (4) According to ASTM F963-23, materials such as glass, metal, ceramic are exempted from soluble element test if they are not small parts.

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2 Consumer Product Safety Improvement Act of 2008 (CPSIA)

2.1 Total lead content

Refer to: CPSIA Sec. 101(a), (f)

Test method: CPSC-CH-E1001-08.3:2012,CPSC-CH-E1002-08.3:2012

Instrument: X-ray fluorescence (XRF) & Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)

Total lead content in substrate

Component No.	Test Item & Result (Unit:mg/kg)
	Total Lead(T-Pb)
1	ND
2	ND
3	ND
4	ND
5	37*
6	ND
7	ND
8	ND
9	ND
10	ND
Detection limit	XRF(See note 3) & 10(Chemistry method)
Limit	≤100

Note:

- (1) mg/kg = ppm=parts per million.
- (2) ND = Not detected, the test result(s) is/are below the detection limit.
- (3) The general approach in that case is to consider any XRF result to be indeterminate and in need of digestion and ICP analysis if that result falls within 30 percent of the Consumer Product Safety Improvement Act (CPSIA) limit.
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2.2 Phthalates content

Refer to: CPSIA Sec.108

Test method: CPSC-CH-C1001-09.4:2018

Instrument: Gas Chromatography-Mass Spectrometer(GC-MS)

Component No.	Test Item & Result (%)							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	DEHP	DBP	BBP	DHEXP	DINP	DIBP	DCHP	DPENP
3+4+5	ND	ND	ND	ND	ND	ND	ND	ND
6+7	ND	ND	ND	ND	ND	ND	ND	ND
8	ND	ND	ND	ND	ND	ND	ND	ND
9	ND	ND	ND	ND	ND	ND	ND	ND
Detection limit	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Limit	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1

Note:

- (1) DEHP 1) Bis(2-ethylhexyl) Phthalate CAS No. 117-81-7
- DBP 2) Dibutyl Phthalate CAS No. 84-74-2
- BBP 3) Benzyl Butyl Phthalate CAS No. 85-68-7
- DHEXP 4) Di-n-hexyl phthalate CAS No. 84-75-3
- DINP 5) Di-isononyl Phthalate CAS No. 28553-12-0, 68515-48-0
- DIBP 6) Di-isobutyl phthalate CAS No. 84-69-5
- DPENP 7) Di-n-pentyl phthalate CAS No. 131-18-0
- DCHP 8) Di-cyclohexyl phthalate CAS No. 84-61-7
- (2) DHEXP: Di-n-hexyl phthalate(CAS No.: 84-75-3), also abbreviated DnHP.
- (3) 0.1%=1000mg/kg, mg/kg = ppm=parts per million.
- (4) ND = Not detected, the test result(s) is/are below the detection limit.

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3 Safe Drinking Water and Toxic Enforcement Act of 1986 of California Proposition 65

3.1 Total Lead content

Test method: CPSC-CH-E1001-08.3:2012,CPSC-CH-E1002-08.3:2012

Instrument: X-ray fluorescence (XRF) & Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)

Total lead content in substrate

Component No.	Test Item & Result (Unit:mg/kg)
	Total Lead(T-Pb)
1	ND
2	ND
3	ND
4	ND
5	37*
6	ND
7	ND
8	ND
9	ND
10	ND
Detection limit	XRF(See note 3) & 10(Chemistry method)
Limit	≤100

Note:

- (1) mg/kg = ppm=parts per million.
- (2) ND = Not detected, the test result(s) is/are below the detection limit.
- (3) The general approach in that case is to consider any XRF result to be indeterminate and in need of digestion and ICP analysis if that result falls within 30 percent of the Consumer Product Safety Improvement Act (CPSIA) limit.
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3.2 Phthalates content

Test method: CPSC-CH-C1001-09.4(2018)

Instrument: Gas Chromatography-Mass Spectrometer(GC-MS)

Component No.	Test Item & Result (%)					
	(1)	(2)	(3)	(4)	(5)	(6)
	DEHP	DBP	BBP	DnHP	DINP	DIDP
3+4+5	ND	ND	ND	ND	ND	ND
6+7	ND	ND	ND	ND	ND	ND
8	ND	ND	ND	ND	ND	ND
9	ND	ND	ND	ND	ND	ND
Detection limit	0.005	0.005	0.005	0.005	0.005	0.005
Limit	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1

Note:

- (1) DEHP 1) Bis(2-ethylhexyl) Phthalate CAS No. 117-81-7
DBP 2) Dibutyl Phthalate CAS No. 84-74-2
BBP 3) Benzyl Butyl Phthalate CAS No. 85-68-7
DnHP 4) Di-n-hexyl phthalate CAS No. 84-75-3
DINP 5) Di-isononyl Phthalate CAS No. 28553-12-0, 68515-48-0
DIDP 6) Diisodecyl phthalate CAS No. 26761-40-0/68515-49-1
- (2) DnHP: Di-n-hexyl phthalate(CAS No.: 84-75-3), also abbreviated DHEXP.
- (3) 0.1%=1000mg/kg, mg/kg = ppm=parts per million
- (4) ND = Not detected, the test result(s) is/are below the detection limit.
- (5) The R at the end of this report number indicates the revised version of report number AL25020171501EN. Report number AL25020171501EN will automatically become invalid from the date of approval of this report. The modified content is as follows:
 - a. On the front page of the report, Address was modified.
 - b. On the page 3 of the report, Sample Photo was modified.

Test component description

- 1 Brick red brick
- 2 Grey brick

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Note: All test results are only valid for the samples being tested. This rest report shall not be reproduced except in full, without the written approval of the testing laboratory The Dates for internal quality control data reference only.

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TEST REPORT

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- 3 Brown plastic rail/name plate
- 4 Black plastic (car chassis)
- 5 Green plastic (leaves)
- 6 Earthy plastic (boat)
- 7 Blue clay
- 8 White solid
- 9 Sky blue plastic bucket
- 10 Wooden pole (shovel)

***** End of Report *****

DECLARATION

- (1) *The information of applicant and sample information as listed on the first page of this test report were all provided by the client. The client shall be responsible for the representativeness of sample and authenticity of materials, for which our company shall bear no responsibilities.*
- (2) *The test data of this test report is only responsible for the tested sample. In principle, the report issued by our company will not judge the test results, unless the customer has special requirements, our company will not bear any economic and legal responsibilities for the direct or indirect impact.*
- (3) *The client shall assume the risks in production, storage, drawing and transferring of sample, and our company shall not assume the risk of incorrect inspection result incurred by these activities.*
- (4) *The judgment method of determining the conformity in this test report is according to the measured value without considering the risk caused by uncertainty, unless otherwise clearly stipulated in special agreement, standard or specification. The client shall assume the risk caused by this judgment method, and our company shall not bear related responsibilities.*
- (5) *If there is any dissent to the test data by the client, please submit the written application for reexamination to the company within fifteen working days from the issue date of the report.. To the test items which cannot be retested, the client may have to give up the dissent right.*
- (6) *The client to return the sample shall notify our company in writing in dealing with entrusting of inspection, and shall retrieve the remaining inspection sample within 30 days after receiving the test report, unless otherwise agreed upon. If the client fails to notify us of returning the sample in writing, our company is entitled to dispose of the remaining inspection sample as per our company's sample disposition stipulations 1 month after issuing the inspection report. If the sample's quality does not allow reserving, our company may immediately dispose of it after issuing the inspection report.*
- (7) *Lelangtek guarantees the objectivity and fairness of test, and carries out confidentiality obligations on business secrets such as business information, technical documents and so on.*
- (8) *This test report is invalid without the signature of the approver, special inspection stamp and paging seal of our organization, and Data erasure invalid.*
- (9) *This test report cannot be copied in any way without the written permission of our company. The test report which is approved to be copied is only effective after duplicated in full text and stamped by our company.*
- (10) *Reports of Findings are issued on the basis of information. documents and samples provided by, or on behalf of, Client and solely for the benefit of Client who is responsible for acting as it sees fit on the basis of such Reports of Findings. Neither the Company nor any of its officers, employees, agents or subcontracts shall be labile to Client nor any third party for any actions taken or not taken on the basis of such Reports of Findings nor for any incorrect results arising from unclear ,erroneous, incomplete, misleading or false information provided to the Company.*
- (11) *The Company shall not be labile for any delayed, partial or total nonperformance of the services arsing directly or indirectly from any event outside the Company's control, including but not limited to failure by the Client to comply with any of its obligations.*
- (12) *In the event of any claim of loss, damage or other reason, the compensation of the Company shall not exceed three times of the subject service charge of the subject sample in any case for loss, damage or claim of any kind.*
- (13) *In case of any discrepancy between the English and Chinese versions of the Terms of Service, the Chinese version shall prevail.*
- (14) *Unless otherwise specified , the compliance determination of this report use the Binary Statement for Simple Acceptance Rule (w=0) in reference to ILAC-G8:09/2019 and CNAS-GL015:2022.*