

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



Applicant: Fujian Zhangping D-road Forestry Co.,Ltd
Address: Fushan Industry District,Zhangping City,Fujian,China,364400
Product Name: Kid's Sandbox 2481
Buyer: AOSOM
Country of Origin: China
Receipt Date of Sample: 2025-09-28, 2025-10-27
Date of Testing: 2025-10-13 ~ 2025-11-18
2025-12-12 ~ 2025-12-23
Sample Submitted: The sample(s) was (were) submitted by applicant and identified.
Test Result: Refer to the data listed in following pages

Test Item	Conclusion
1. EN 71-3:2019+A1:2021-Migration of certain elements	Pass
2. EN 71-3:2019+A2:2024-Migration of certain elements	Pass
3. ASTM F963-23 Section 4.3.5.1 - Total Lead Content Test (Paint and Similar Surface-Coating Materials)	Pass
4. ASTM F963-23 Section 4.3.5.2 - Total Lead Content Test (Substrate Materials)	Pass
5. ASTM F963-23 Section 4.3.5.1 & Section 4.3.5.2 - Soluble Heavy Elements	Pass
6. ASTM F963-23 Section 4.3.8 - Phthalates	Pass
7. 16 CFR part 1303 Paints and similar surface coatings - Total Lead Content	Pass
8. CPSIA section 101(f) - Total Lead Content (surface coating)	Pass
9. 15 U.S.C. § 1278a / CPSIA section 101(a)(2) - Total lead content (Substrate)	Pass
10. CPSIA, § 108, 16 CFR 1307- Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	Pass
11. Canada Toys Regulations SOR/2011-17 Section 23 and SOR/2022-122-Total Lead Content	Pass
12. Canada Toys Regulations SOR/2011-17 Section 23 and SOR/2022-122 -Total Mercury Content	Pass
13. Canada Toys Regulations SOR/2011-17 Section 23 and SOR/2022-122- Migration of certain 5 Elements	Pass
14. Canada Consumer Products Containing Lead Regulations (SOR/2018-83) -Total Lead Content	Pass
15. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations SOR/2016-193 and SOR/2022-122- Total Lead Content	Pass
16. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations SOR/2016-193 and SOR/2022-122 -Total Mercury Content	Pass
17. Canada Phthalates Regulations (SOR/2016-188) - Phthalates Content	Pass
18. EN 71-2:2020 Flammability	Pass
19. EN 71-2:2020+A1:2025 Flammability	Pass

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuvsud.com

Web : <http://www.tuvsud.cn>

Lab 1 - Chemical testing and part of electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



Test Item	Conclusion
20. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Physical and Mechanical	Pass
21. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Flammability Test of Materials Other Than Textile Materials	Pass
22. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Flammability Test of Textile Materials	Pass
23. CPSC Mechanical and Physical Properties	Pass
24. CPSC Flammability	Pass
25. Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 + SOR/2018-138 - Physical & Mechanical	Pass
26. Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 + SOR/2018-138 - Flammability	Pass
27. Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 Tracking labels for children's products	Pass
28. EN 71-1:2014+A1:2018 Mechanical and Physical Properties	Pass
29. 2009/48/EC General Labeling	Pass

Remarks: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)
3. <= Less than
4. 1 mg/kg = 1 ppm = 0.0001%
5. This report is based on report 68.452.25.2581.01 issued on 2025-11-18. Supplemental test item was tested.

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998
Fax: +86 755 8828 5299
E-mail: info@tuvsud.com
Web : <http://www.tuvsud.cn>

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Testing Center

Prepared by:

Authorized by:

Gianna



Steven

Hobart

Gianna Gao
Project Manager

Steven Shu
Project Manager
(For Chemical)

Hobart Yang
Senior Test Engineer
(For Physical and Mechanical)

Note:

- (1) The TÜV SÜD Certification and Testing (China) Co., Ltd. "General Terms & Conditions" applied.
Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question. It does not imply a general statement regarding the quality of products from regular production. For further details please see Testing, Certification, Validation and Verification Regulations, chapter A-3.3.
For full version, please visit: EN : <https://www.tuvsud.cn/zh-cn/resource/terms-and-conditions---en> ; SCN: <https://www.tuvsud.cn/zh-cn/terms-and-conditions> ; TCN: <https://www.tuvsud.com/zh-tw/terms-and-conditions>
- (2) The results relate only to the Items tested.
- (3) The test report shall not be reproduced except in full without the written approval of the laboratory
- (4) If relevant standards do not specify decision rule(s), follow decision rule as below:
 - "Pass" means that the measured result is within the limits, even when extended by expanded uncertainty at a level of confidence of 95%.
 - "Fail" means that the measured result is beyond the limit, even when extended by expanded uncertainty at a level of confidence of 95%.

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998
Fax: +86 755 8828 5299
E-mail: info@tuvsud.com
Web : <http://www.tuvsud.cn>

Lab 1 - Chemical testing and part of
electrical testing
Lab 2 - Physical & mechanical
testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China
Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Description of Tested Subject:

Sample	Description	Photo
001	Whole product (Kid's Sandbox 2481)	
020	Whole product (Kid's Sandbox 2481_Brick-red Style)	
021	Whole product (Kid's Sandbox 2481_Dull brown Style)	

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998
Fax: +86 755 8828 5299
E-mail: info@tuvsud.com
Web : <http://www.tuvsud.cn>

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



T. No	Sample	Description
T1	001	Whole product (Kid's Sandbox 2481)
T2	002	Nature color wood
T3	003	Light blue plastic (Tray)
T4	004	Iridescent metal (Screw, nut, washer, bolt)
T5	005	Grey coating (Board)
T6	006	Black coating (Board)
T7	007	Black non-woven (Pad)
T8	008	Blue printed white fabric (Awning)
T9	009	Green printed white fabric (Awning)
T10	010	Brick-red coating (Board)
T11	011	Dull brown coating (Board)
T12	012	Bright grey plastic (Bucket)
T13	013	White plastic (Water faucet)
T14	014	Translucent white soft plastic (Washer of water faucet)
T15	015	Red printed white fabric (Awning)
T16	016	Pink felt (Flag)
T17	017	Blue felt (Flag)
T18	018	Yellow felt (Flag)
T19	019	White satin ribbon (Band of flag)
T20	020	Whole product (Kid's Sandbox 2481_Brick-red Style)
T21	021	Whole product (Kid's Sandbox 2481_Dull brown Style)

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuvsud.com

Web : <http://www.tuvsud.cn>

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



Test Result(s):

1. EN 71-3:2019+A1:2021-Migration of certain elements

Test with reference to EN71-3:2019+A1:2021, determination by ICP-MS.

Parameter	MDL [mg/kg]	Limit in scraped- off toy [mg/kg]	Result(s) [mg/kg]	
			002	003
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	5.20	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	ND	ND
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	17.4	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit in scraped- off toy [mg/kg]	Result(s) [mg/kg]	
			005	006
Soluble Aluminum	5.00	28130	783.0	21.7
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	5.00	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	4.47	0.822
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	6.69
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	61.1	67.3
Soluble Mercury	5.00	94	ND	ND

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuvsud.com

Web : http://www.tuvsud.cn

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	48.2	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	143.4	48.4
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			007	008
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.435	0.110
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	11.6	ND
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			009	010
Soluble Aluminum	5.00	28130	ND	15.9
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	9.69
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuv sud.cn

Web : http://www.tuv sud.cn

Lab 1 - Chemical testing and part of electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



Soluble Chromium III	0.04	460	0.055	0.217
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	69.9
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	16.6
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit in scraped- off toy [mg/kg]	Result(s) [mg/kg]	
			011	012
Soluble Aluminum	5.00	28130	13.3	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.147	ND
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	104.3	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	6.76	ND
Conclusion			Pass	Pass

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuvsud.com

Web : <http://www.tuvsud.cn>

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



Parameter	MDL [mg/kg]	Limit in scraped- off toy [mg/kg]	Result(s) [mg/kg]	
			013	014
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	ND	0.178
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit in scraped- off toy [mg/kg]	Result(s) [mg/kg]	
			015	016
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	ND	8.87
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	ND	ND
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6988

Fax: +86 755 8828 5299

E-mail: info@tuvsud.com

Web : http://www.tuvsud.cn

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			017	018
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	7.84	5.39
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	12.2
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.089	0.100
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	10.8
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]
			019
Soluble Aluminum	5.00	28130	11.1
Soluble Antimony	5.00	560	11.4
Soluble Arsenic	5.00	47	ND
Soluble Barium	5.00	18750	ND
Soluble Boron	5.00	15000	ND
Soluble Cadmium	5.00	17	ND
Soluble Chromium III	0.04	460	0.682
Soluble Chromium VI	0.04	0.053	ND
Soluble Cobalt	5.00	130	ND

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuvsud.com

Web : http://www.tuvsud.cn

Lab 1 - Chemical testing and part of electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



Soluble Copper	5.00	7700	ND
Soluble Lead	5.00	23	ND
Soluble Manganese	5.00	15000	ND
Soluble Mercury	5.00	94	ND
Soluble Nickel	5.00	930	ND
Soluble Selenium	5.00	460	ND
Soluble Strontium	5.00	56000	ND
Soluble Tin	2.50	180000	ND
Organic Tin	7.50	12	ND
Soluble Zinc	5.00	46000	14.4
Conclusion			Pass

2. EN 71-3:2019+A2:2024-Migration of certain elements

Test with reference to EN71-3:2019+A2:2024, determination by ICP-MS.

Parameter	MDL [mg/kg]	Limit in scraped- off toy [mg/kg]	Result(s) [mg/kg]	
			002	003
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	5.20	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	ND	ND
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	17.4	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuvsud.com

Web : <http://www.tuvsud.cn>

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



Parameter	MDL [mg/kg]	Limit in scraped- off toy [mg/kg]	Result(s) [mg/kg]	
			005	006
Soluble Aluminum	5.00	28130	783.0	21.7
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	5.00	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	4.47	0.822
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	6.69
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	61.1	67.3
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	48.2	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	143.4	48.4
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit in scraped- off toy [mg/kg]	Result(s) [mg/kg]	
			007	008
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.435	0.110
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuvsud.com

Web : http://www.tuvsud.cn

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	11.6	ND
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			009	010
Soluble Aluminum	5.00	28130	ND	15.9
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	9.69
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.055	0.217
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	69.9
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	16.6
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]	
			011	012
Soluble Aluminum	5.00	28130	13.3	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.147	ND
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuvsud.com

Web : <http://www.tuvsud.cn>

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	104.3	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	6.76	ND
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit in scraped- off toy [mg/kg]	Result(s) [mg/kg]	
			013	014
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	ND	ND
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	ND	0.178
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuv sud.com

Web : http://www.tuv sud.cn

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



Parameter	MDL [mg/kg]	Limit in scraped- off toy [mg/kg]	Result(s) [mg/kg]	
			015	016
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	ND	8.87
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	ND
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	ND	ND
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND
Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	ND
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit in scraped- off toy [mg/kg]	Result(s) [mg/kg]	
			017	018
Soluble Aluminum	5.00	28130	ND	ND
Soluble Antimony	5.00	560	7.84	5.39
Soluble Arsenic	5.00	47	ND	ND
Soluble Barium	5.00	18750	ND	12.2
Soluble Boron	5.00	15000	ND	ND
Soluble Cadmium	5.00	17	ND	ND
Soluble Chromium III	0.04	460	0.089	0.100
Soluble Chromium VI	0.04	0.053	ND	ND
Soluble Cobalt	5.00	130	ND	ND
Soluble Copper	5.00	7700	ND	ND
Soluble Lead	5.00	23	ND	ND
Soluble Manganese	5.00	15000	ND	ND
Soluble Mercury	5.00	94	ND	ND
Soluble Nickel	5.00	930	ND	ND
Soluble Selenium	5.00	460	ND	ND
Soluble Strontium	5.00	56000	ND	ND

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6988

Fax: +86 755 8828 5299

E-mail: info@tuvsud.com

Web : http://www.tuvsud.cn

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



Soluble Tin	2.50	180000	ND	ND
Organic Tin	7.50	12	ND	ND
Soluble Zinc	5.00	46000	ND	10.8
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit in scraped-off toy [mg/kg]	Result(s) [mg/kg]
			019
Soluble Aluminum	5.00	28130	11.1
Soluble Antimony	5.00	560	11.4
Soluble Arsenic	5.00	47	ND
Soluble Barium	5.00	18750	ND
Soluble Boron	5.00	15000	ND
Soluble Cadmium	5.00	17	ND
Soluble Chromium III	0.04	460	0.682
Soluble Chromium VI	0.04	0.053	ND
Soluble Cobalt	5.00	130	ND
Soluble Copper	5.00	7700	ND
Soluble Lead	5.00	23	ND
Soluble Manganese	5.00	15000	ND
Soluble Mercury	5.00	94	ND
Soluble Nickel	5.00	930	ND
Soluble Selenium	5.00	460	ND
Soluble Strontium	5.00	56000	ND
Soluble Tin	2.50	180000	ND
Organic Tin	7.50	12	ND
Soluble Zinc	5.00	46000	14.4
Conclusion			Pass

3. ASTM F963-23 Section 4.3.5.1 - Total Lead Content Test (Paint and Similar Surface-Coating Materials)

Test with reference to CPSC-CH-E1003-09.1, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
005	mg/kg	10.0	90	ND	Pass
006	mg/kg	10.0	90	ND	Pass
010	mg/kg	10.0	90	ND	Pass
011	mg/kg	10.0	90	ND	Pass

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuvsud.com

Web : http://www.tuvsud.cn

Lab 1 - Chemical testing and part of electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



4. ASTM F963-23 Section 4.3.5.2 - Total Lead Content Test (Substrate Materials)

Test with reference to CPSC-CH-E1003-09.1, CPSC-CH-E1001-08.3 or CPSC-CH-E1002-08.3, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
003	mg/kg	10.0	100	ND	Pass
004	mg/kg	10.0	100	ND	Pass
007	mg/kg	10.0	100	ND	Pass
012	mg/kg	10.0	100	ND	Pass
013+014	mg/kg	10.0	100	ND	Pass

5. ASTM F963-23 Section 4.3.5.1 & Section 4.3.5.2 - Soluble Heavy Elements

Test with reference to ASTM F963-23 Section 8.3, determination by ICP-MS.

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			003	005
Soluble Antimony	5.0	60	ND	ND
Soluble Arsenic	5.0	25	ND	ND
Soluble Barium	5.0	1000	ND	ND
Soluble Cadmium	5.0	75	ND	ND
Soluble Chromium	5.0	60	ND	ND
Soluble Lead	5.0	90	ND	ND
Soluble Mercury	5.0	60	ND	ND
Soluble Selenium	5.0	500	ND	ND
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			006	007
Soluble Antimony	5.0	60	ND	ND
Soluble Arsenic	5.0	25	ND	ND
Soluble Barium	5.0	1000	ND	ND
Soluble Cadmium	5.0	75	ND	ND
Soluble Chromium	5.0	60	ND	ND
Soluble Lead	5.0	90	ND	ND
Soluble Mercury	5.0	60	ND	ND
Soluble Selenium	5.0	500	ND	ND
Conclusion			Pass	Pass

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998
Fax: +86 755 8828 5299
E-mail: info@tuvsud.com
Web : http://www.tuvsud.cn

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			008	009
Soluble Antimony	5.0	60	ND	ND
Soluble Arsenic	5.0	25	ND	ND
Soluble Barium	5.0	1000	ND	ND
Soluble Cadmium	5.0	75	ND	ND
Soluble Chromium	5.0	60	ND	ND
Soluble Lead	5.0	90	ND	ND
Soluble Mercury	5.0	60	ND	ND
Soluble Selenium	5.0	500	ND	ND
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			010	011
Soluble Antimony	5.0	60	ND	ND
Soluble Arsenic	5.0	25	ND	ND
Soluble Barium	5.0	1000	6.8	ND
Soluble Cadmium	5.0	75	ND	ND
Soluble Chromium	5.0	60	ND	ND
Soluble Lead	5.0	90	ND	ND
Soluble Mercury	5.0	60	ND	ND
Soluble Selenium	5.0	500	ND	ND
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			012	013
Soluble Antimony	5.0	60	ND	ND
Soluble Arsenic	5.0	25	ND	ND
Soluble Barium	5.0	1000	ND	ND
Soluble Cadmium	5.0	75	ND	ND
Soluble Chromium	5.0	60	ND	ND
Soluble Lead	5.0	90	ND	ND
Soluble Mercury	5.0	60	ND	ND
Soluble Selenium	5.0	500	ND	ND
Conclusion			Pass	Pass

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuvsud.com

Web : <http://www.tuvsud.cn>

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			014	015
Soluble Antimony	5.0	60	ND	ND
Soluble Arsenic	5.0	25	ND	ND
Soluble Barium	5.0	1000	ND	ND
Soluble Cadmium	5.0	75	ND	ND
Soluble Chromium	5.0	60	ND	ND
Soluble Lead	5.0	90	ND	ND
Soluble Mercury	5.0	60	ND	ND
Soluble Selenium	5.0	500	ND	ND
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			016	017
Soluble Antimony	5.0	60	ND	ND
Soluble Arsenic	5.0	25	ND	ND
Soluble Barium	5.0	1000	ND	ND
Soluble Cadmium	5.0	75	ND	ND
Soluble Chromium	5.0	60	ND	ND
Soluble Lead	5.0	90	ND	ND
Soluble Mercury	5.0	60	ND	ND
Soluble Selenium	5.0	500	ND	ND
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			018	019
Soluble Antimony	5.0	60	ND	ND
Soluble Arsenic	5.0	25	ND	ND
Soluble Barium	5.0	1000	8.5	ND
Soluble Cadmium	5.0	75	ND	ND
Soluble Chromium	5.0	60	ND	ND
Soluble Lead	5.0	90	ND	ND
Soluble Mercury	5.0	60	ND	ND
Soluble Selenium	5.0	500	ND	ND
Conclusion			Pass	Pass

Remark: 1. Adjusted analytical result.

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuvsud.com

Web : <http://www.tuvsud.cn>

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



6. ASTM F963-23 Section 4.3.8 - Phthalates

Test with reference to CPSC-CH-C1001-09.4, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					003	005
Dibutyl phthalate (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Diisobutylphthalate (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Di-n-pentyl phthalates (DPENP)	131-18-0	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					006	007
Dibutyl phthalate (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Diisobutylphthalate (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	0.007	ND
Di-n-pentyl phthalates (DPENP)	131-18-0	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuvsud.com

Web : <http://www.tuvsud.cn>

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					010	011
Dibutyl phthalate (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Diisobutylphthalate (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Di-n-pentyl phthalates (DPENP)	131-18-0	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					012	013+014
Dibutyl phthalate (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Diisobutylphthalate (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Di-n-pentyl phthalates (DPENP)	131-18-0	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuv sud.com

Web : http://www.tuvsud.cn

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

7. 16 CFR part 1303 Paints and similar surface coatings - Total Lead Content

Test with reference to CPSC-CH-E1003-09.1, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
005	mg/kg	10.0	90	ND	Pass
006	mg/kg	10.0	90	ND	Pass
010	mg/kg	10.0	90	ND	Pass
011	mg/kg	10.0	90	ND	Pass

8. CPSIA section 101(f) - Total Lead Content (surface coating)

Test with reference to CPSC-CH-E1003-09.1, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
005	mg/kg	10.0	90	ND	Pass
006	mg/kg	10.0	90	ND	Pass
010	mg/kg	10.0	90	ND	Pass
011	mg/kg	10.0	90	ND	Pass

9. 15 U.S.C. § 1278a / CPSIA section 101(a)(2) - Total lead content (Substrate)

Test with reference to CPSC-CH-E1001-08.3 or CPSC-CH-E1002-08.3, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
003	mg/kg	10.0	100	ND	Pass
004	mg/kg	10.0	100	ND	Pass
007	mg/kg	10.0	100	ND	Pass
012	mg/kg	10.0	100	ND	Pass
013+014	mg/kg	10.0	100	ND	Pass

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



10. CPSIA, § 108, 16 CFR 1307- Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates

Test with reference to CPSC-CH-C1001-09.4, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					003	005
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Di-n-pentyl phthalates (DPENP)	131-18-0	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					006	007
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	0.007	ND
Di-n-pentyl phthalates (DPENP)	131-18-0	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuv sud.com

Web : http://www.tuv sud.cn

Lab 1 - Chemical testing and part of electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					010	011
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Di-n-pentyl phthalates (DPENP)	131-18-0	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					012	013+014
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.005	0.1	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Di-n-pentyl phthalates (DPENP)	131-18-0	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuv sud.com

Web : http://www.tuv sud.cn

Lab 1 - Chemical testing and part of electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



11. Canada Toys Regulations SOR/2011-17 Section 23 and SOR/2022-122-Total Lead Content

Test with reference to CPSC-CH-E1003-09.1, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
005	mg/kg	10.0	90	ND	Pass
006	mg/kg	10.0	90	ND	Pass
010	mg/kg	10.0	90	ND	Pass
011	mg/kg	10.0	90	ND	Pass

12. Canada Toys Regulations SOR/2011-17 Section 23 and SOR/2022-122 -Total Mercury Content

Test with reference to EPA 3052:1996, microwave digestion, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
005	mg/kg	10.0	10	ND	Pass
006	mg/kg	10.0	10	ND	Pass
010	mg/kg	10.0	10	ND	Pass
011	mg/kg	10.0	10	ND	Pass

13. Canada Toys Regulations SOR/2011-17 Section 23 and SOR/2022-122- Migration of certain 5 Elements

Test with reference to ASTM F963-23 Section 8.3, determination by ICP-MS.

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			005	006
Soluble Antimony	5.0	1000	ND	ND
Soluble Arsenic	5.0	1000	ND	ND
Soluble Cadmium	5.0	1000	ND	ND
Soluble Selenium	5.0	1000	ND	ND
Soluble Barium	5.0	1000	ND	ND
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			010	011
Soluble Antimony	5.0	1000	ND	ND
Soluble Arsenic	5.0	1000	ND	ND
Soluble Cadmium	5.0	1000	ND	ND
Soluble Selenium	5.0	1000	ND	ND
Soluble Barium	5.0	1000	6.8	ND
Conclusion			Pass	Pass

Note: 1. Adjusted analytical result.

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6988
Fax: +86 755 8828 5299
E-mail: info@tuvsud.com
Web : http://www.tuvsud.cn

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

14. Canada Consumer Products Containing Lead Regulations (SOR/2018-83) -Total Lead Content

Test with reference to CPSC-CH-E1003-09.1, CPSC-CH-E1001-08.3 or CPSC-CH-E1002-08.3, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
003	mg/kg	10.0	90	ND	Pass
004	mg/kg	10.0	90	ND	Pass
005	mg/kg	10.0	90	ND	Pass
006	mg/kg	10.0	90	ND	Pass
007	mg/kg	10.0	90	ND	Pass
010	mg/kg	10.0	90	ND	Pass
011	mg/kg	10.0	90	ND	Pass
012	mg/kg	10.0	90	ND	Pass
013+014	mg/kg	10.0	90	ND	Pass

15. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations SOR/2016-193 and SOR/2022-122- Total Lead Content

Test with reference to CPSC-CH-E1003-09.1:2011, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
005	mg/kg	10.0	90	ND	Pass
006	mg/kg	10.0	90	ND	Pass
010	mg/kg	10.0	90	ND	Pass
011	mg/kg	10.0	90	ND	Pass

16. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations SOR/2016-193 and SOR/2022-122 -Total Mercury Content

Test with reference to EPA 3052:1996, microwave digestion, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
005	mg/kg	10.0	10	ND	Pass
006	mg/kg	10.0	10	ND	Pass
010	mg/kg	10.0	10	ND	Pass
011	mg/kg	10.0	10	ND	Pass

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



17. Canada Phthalates Regulations (SOR/2016-188) - Phthalates Content

Test with reference to CPSC-CH-C1001-09.4, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					003	005
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Di-isodecyl phthalate, (DIDP)	26761-40-0 /68515-49-1	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					006	007
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	0.007	ND
Di-isodecyl phthalate, (DIDP)	26761-40-0 /68515-49-1	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					010	011
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Di-isodecyl phthalate, (DIDP)	26761-40-0 /68515-49-1	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuv sud.cn

Web : http://www.tuv sud.cn

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					012	013+014
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	ND	ND
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	ND	ND
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	ND	ND
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	ND	ND
Di-isononyl phthalate, (DINP)	28553-12-0 /68515-48-0	%	0.005	0.1	ND	ND
Di-isodecyl phthalate, (DIDP)	26761-40-0 /68515-49-1	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

18. EN 71-2:2020 Flammability

Sample	001, 020, 021
--------	---------------

Clause	Requirement	Evaluation
4.1	General requirements	P
4.2	Toy to be worn on the head	NA
4.3	Toys 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

Abbreviation:

P = Pass, F = Fail, NA = Not Applicable, NR = Not Requested.

19. EN 71-2:2020+A1:2025 Flammability

Sample	001, 020, 021
--------	---------------

Clause	Requirement	Evaluation
4.1	General requirements	P
4.2	Toy to be worn on the head	NA
4.3	Toys 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

Abbreviation:

P = Pass, F = Fail, NA = Not Applicable, NR = Not Requested.

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998
Fax: +86 755 8828 5299
E-mail: info@tuvsud.com
Web : http://www.tuvsud.cn

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



20. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Physical and Mechanical

Sample	001, 020, 021
Labelled age range	3-7years
Requested age range	3-7years
Age Group Assessed As per Age Guideline	Over 2 years
Age range in testing	Over 2 years

Clause	Requirement	Evaluation
4	General Requirements	--
4.1	Material Quality	P
4.3.7	Stuffing Materials	NA
4.4	Electrical/Thermal Energy	NA
4.5	Sound-Producing toys	NA
4.6	Small Objects	P
4.7	Accessible Edges	P
4.8	Projections	NA
4.9	Accessible Points	P
4.10	Wires or Rods	NA
4.11	Nails and Fasteners	P
4.12	Plastic Film	P
4.13	Folding Mechanisms and Hinges	NA
4.14	Cords, Straps, and Elastics	NA
4.15	Stability and Over-load Requirements	P
4.16	Confined Spaces	NA
4.17	Wheels, Tires, and Axles	NA
4.18	Holes, Clearance, and Accessibility of Mechanisms	P
4.19	Simulated Protective Devices	NA
4.20	Pacifiers	NA
4.21	Projectile Toys	NA
4.22	Teethers and Teething Toys	NA
4.23	Rattles	NA
4.24	Squeeze toys	NA
4.25	Battery-Operated toys	NA
4.26	Toys Intended to be Attached to a Crib or Playpen	NA
4.27	Stuffed and Beanbag-Type Toys	NA
4.28	Stroller and Carriage toys	NA
4.29	Art Materials	NA
4.30	Toy Gun Marking	NA
4.31	Balloons	NA
4.32	Certain Toys with Nearly Spherical Ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-Shaped Objects	NA
4.37	Yo Yo Elastic Tether Toys	NA

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuvsud.com

Web : <http://www.tuvsud.cn>

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



Clause	Requirement	Evaluation
4.38	Magnets	NA
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding Materials	NA
4.41	Toy chests	NA
5	Labeling Requirements	--
5.1.2	Tracking Label	P
5.2	Age Grading Labeling	P
5.3	Safety Labeling Requirements	P
5.4	Aquatic Toys	NA
5.5	Crib and Playpen Toys	NA
5.6	Mobiles	NA
5.7	Stroller and Carriage Toys	NA
5.8	Toys Intended to be Assembled By an Adult	P
5.9	Simulated Protective Devices	NA
5.10	Toys with Functional Sharp Edges or Points	NA
5.11	Small Objects, Small Balls, Marbles, and Balloons	NA
5.12	Art Materials	NA
5.13	Electric Toys	NA
5.14	Battery-Operated Toys	NA
5.15	Promotional Materials	P
5.16	Magnets	NA
6	Instructional Literature	--
6.1	Definition and Description	P
6.2	Crib and Playpen Toys	NA
6.3	Mobiles	NA
6.4	Toys Intended to be Assembled By an Adult	P
6.5	Battery-Operated Toys	NA
6.6	Battery-powered Ride-on Toys	NA
6.7	Toys in Contact with Food	NA
6.8	Toy Chests	NA
6.9	Instructional material for toys which require a manufacturer-supplied specialty or custom tool	NA
7	Producer's Markings	--
7.1	Name and Address of the Producer or Distributor	P
7.2	Battery-Powered Ride-on Toys	NA
7.3	Toy Chests	NA
8.5	Normal Use Testing	P
8.7	Impact Tests	P
8.8	Torque Tests for Removal of Components	P
8.9	Tension Test for Removal of Components	P
8.10	Compression Test	P

Abbreviation:

P = Pass, F = Fail, NA = Not Applicable, NR = Not Requested.

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998
Fax: +86 755 8828 5299
E-mail: info@tuvsud.com
Web : <http://www.tuvsud.cn>

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

21. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Flammability Test of Materials Other Than Textile Materials

As per Section 4.2 of ASTM F963-23 Standard Consumer Safety Specification for Toy Safety

Sample: 001, 020, 021

Result: Did Not Ignite

22. ASTM F963-23 Standard Consumer Safety Specification for Toy Safety - Flammability Test of Textile Materials

As per Section 4.2 of ASTM F963-23 Standard Consumer Safety Specification for Toy Safety

Sample: 001, 020, 021

Result: Ignited but Self-Extinguished.

23. CPSC Mechanical and Physical Properties

As per U.S. Code of Federal Regulations title 16 Part 1500.50, the hazards of sharp points, sharp edge and small parts are assessed both before and after applicable use and abuse tests.

Sample	001, 020, 021		
Labelled age range	3-7years		
Requested age range	3-7years		
Age range in testing	Over 2 years		
Age Group Assessed As per Age Guideline	Over 2 years		

	Sharp Point (1500.48)	Sharp Edge (1500.49)	Small Part (1501)
As Received	P	P	P
Impact (1500.52(b))	P	P	P
Flexure (1500.53(d))	NA	NA	NA
Torque (1500.53(e))	P	P	P
Tension (1500.53(f))	P	P	P
Compression (1500.53(g))	P	P	P

Abbreviation:

P = Pass, F = Fail, NA = Not Applicable, NR = Not Requested.

24. CPSC Flammability

As per U.S. Code of Federal Regulations title 16 Part 1500.44 for rigid and pliable solids.

Sample: 001, 020, 021

Result: Did Not Ignite

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuv sud.com

Web : http://www.tuvsud.cn

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



25. Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 + SOR/2018-138 - Physical & Mechanical

Sample	001, 020, 021
Labelled age range	3-7years
Requested age range	3-7years
Age Group Assessed As per Age Guideline	Over 2 years
Age range in testing	Over 2 years

Clause	Requirement	Evaluation
3	Official languages	NA
4	Flexible film bags	P
5	Electrically operated toys	NA
6	Electrically heated toys	NA
7	Small parts	P
8	Metal edges	P
9	Wire frames	NA
10	Plastic edges	P
11	Wood	P
12	Glass	NA
13	Fasteners	P
14	Safety stops or locking devices	NA
15	Spring-wound driving mechanisms	NA
16	Projectile components	NA
17	Enclosures	NA
18	Stability	P
19	Decibel limit	NA
20	Heated surfaces, parts or substances	NA
28	Dolls, Plush toys and Soft Toys - Fastening	NA
29	Dolls, Plush toys and Soft Toys - Stuffing	NA
30	Dolls, Plush toys and Soft Toys - Small parts	NA
31	Dolls, Plush toys and Soft Toys - Eyes and noses	NA
35	Plant seeds - noise	NA
36	Plant seeds - stuffing material	NA
37	Pull and Push Toys - Shaft-like handles	NA
38	Toy Steam Engines - Boilers - Safety valves	NA
39	Finger paints - Water-based paints	NA
40	Rattles - Construction	NA
41	Elastics - Length or extensibility	NA
42	Yo-yo Type Balls - Stretchable cords	NA
43	Magnetic force	NA
44	Magnetic force (Warning)	NA

Abbreviation:

P = Pass, F = Fail, NA = Not Applicable, NR = Not Requested.

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuvsud.com

Web : http://www.tuvsud.cn

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



26. Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 + SOR/2018-138 – Flammability

Sample	001, 020, 021
--------	---------------

Clause	Requirement	Evaluation
21	Celluloid or cellulose nitrate	P
32	Flammability of outer covering	NA
33	Flammability of yarn	NA
34	Flammability of hair or mane	NA

Abbreviation:

P = Pass, F = Fail, NA = Not Applicable, NR = Not Requested.

27. Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 Tracking labels for children's products

Sample	001, 020, 021
--------	---------------

Section	Requirement	Evaluation
Tracking labels for children's products	A permanent and distinguishing mark or code on the product and its packaging, to the extent practicable, allows the manufacturer and purchaser to ascertain the name of the manufacturer or private labeler, location and date of production of the product.	P

Abbreviation:

P = Pass, F = Fail, NA = Not Applicable, NR = Not Requested.

Note:

The tracking label assessment was based on the submitted samples and the information provided by the applicant. There was no verification on the validity of such information.

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998
Fax: +86 755 8828 5299
E-mail: info@tuv sud.com
Web : <http://www.tuv sud.cn>

Lab 1 - Chemical testing and part of
electrical testing
Lab 2 - Physical & mechanical
testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China
Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



28. EN 71-1:2014+A1:2018 Mechanical and Physical Properties

Sample	001, 020, 021
Labelled age range	3-7 years
Requested age range	3-7 years
Age Group Assessed As per Age Guideline	Over 2 years
Age range in testing	Over 2 years

Clause	Requirement	Evaluation
4	General Requirements	-
4.1	Material cleanliness	P
4.2	Assembly	P
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	P
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 a 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	P
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

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuvsud.com

Web : <http://www.tuvsud.cn>

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



Clause	Requirement	Evaluation
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	P
7	Warnings markings and instructions for use	-
7.1	General	P
7.2	Toys not intended for children under 36 months	NA
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	Projectiles toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toys kites	NA
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA
7.11	Toys intended to be 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 experiment 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

Abbreviation:

P = Pass, F = Fail, NA = Not Applicable, NR = Not Requested.

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998
Fax: +86 755 8828 5299
E-mail: info@tuv sud.com
Web : <http://www.tuv sud.cn>

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.452.25.2581.01A

Date: 2025-12-24



29. 2009/48/EC General Labeling Requirement

Sample	001, 020, 021
--------	---------------

Labelling requirement (Washing/Cleaning instruction, CE marking, Importer/Manufacturer name and address, Product identification) according to the Directive 2009/48/EC-Safety of toys.		
	On packaging	On product
(EU) Washing/Cleaning instruction	NA	NA
A toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soak washed. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned.		
Requirement		Evaluation
CE marking		P
Importer's/Manufacturer's Name and Address		P
(EU) Product Identification		P

Abbreviation:

P = Pass, F = Fail, NA = Not Applicable, NR = Not Requested.

-End of Test Report-

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuvsud.com

Web : <http://www.tuvsud.cn>

Lab 1 - Chemical testing and part of
electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China