

Test Report

No.: 68.452.25.1815.01J

Date: 2025-08-04



Applicant: Guangdong Tingyi Science and Technology Co.,Ltd
Address: No. 130, Hexing Road, Jindu Town Community, Jindu Town, Gaoyao District, Zhaoqing City, Guangdong Province
Product Name: Acrylic Painter Ink
Receipt Date of Sample: 2025-07-16, 2025-07-24
Date of Testing: 2025-07-16 ~ 2025-08-01
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. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 23 - Cadmium Content	Pass
4. Polycyclic Aromatic Hydrocarbons (15 PAHs)	Pass
5. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 50 - Polycyclic Aromatic Hydrocarbons (PAHs)	Pass
6. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 51 & 52 - Phthalates Content	Pass

Remarks: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)
3. <= Less than
4. 1 mg/kg = 1 ppm = 0.0001%
5. The test item and sample were specified by the client.

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.: 68.452.25.1815.01J

Date: 2025-08-04



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

Prepared by:

Authorized by:

Gianna



Steven Shu

Gao, Gianna
Project Manager

Shu, Steven
Project Manager

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 and is not generally applicable evaluation of the quality of other products in regular production.
For further details, please see "Testing and certification regulation", chapter A-3.4
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
A	Whole product	

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

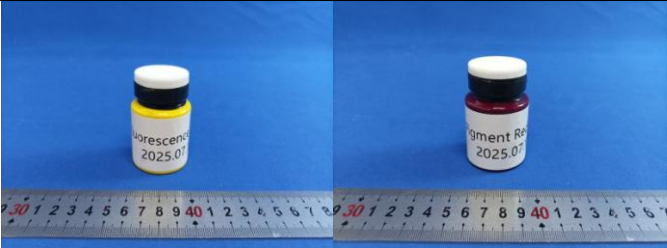
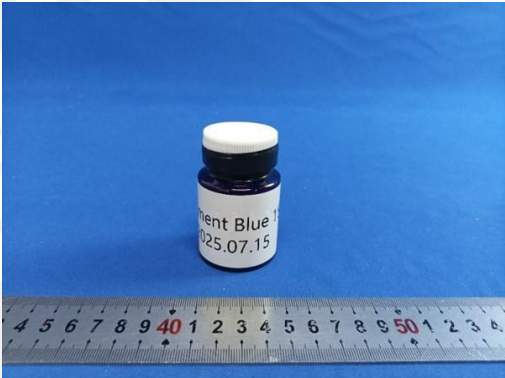
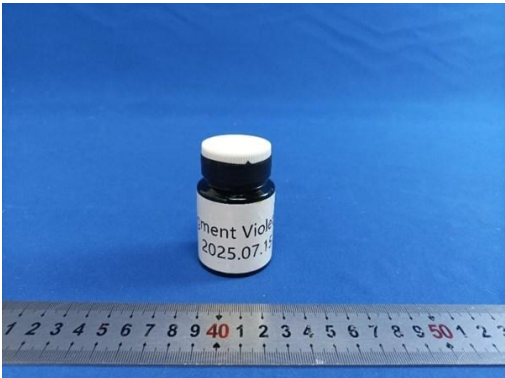
Lab 1 - Chemical testing and part of
electrical testing
Lab 2 - Physical & mechanical
testing

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.: 68.452.25.1815.01J
Date: 2025-08-04



Sample	Description	Photo
A	Whole product	
001	Red ink (Acrylic Painter Ink - Red 254)	
002	Deep blue ink (Acrylic Painter Ink - Blue 15)	
003	Violet ink (Acrylic Painter Ink - Violet 23)	

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

Sample	Description	Photo
004	White ink (Acrylic Painter Ink - White)	
005	Orange ink (Acrylic Painter Ink - Orange 73)	
006	Orange yellow ink (Acrylic Painter Ink - Yellow 83)	

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

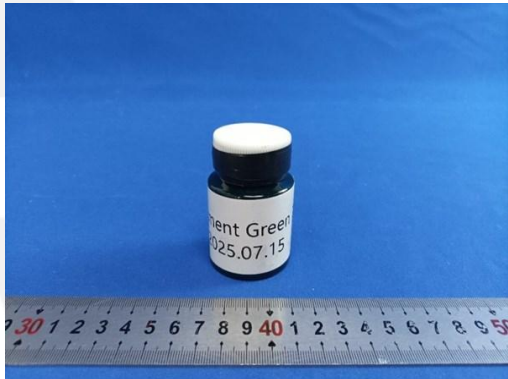
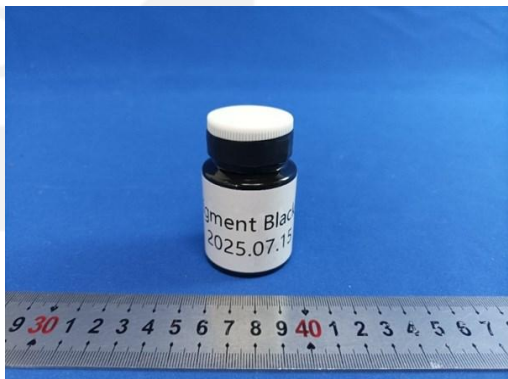
Web : <http://www.tuvsud.cn>

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

Sample	Description	Photo
007	Silvery ink (Acrylic Painter Ink - Silvery)	
008	Deep green ink (Acrylic Painter Ink - Green 7)	
009	Black ink (Acrylic Painter Ink - Black 7)	

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

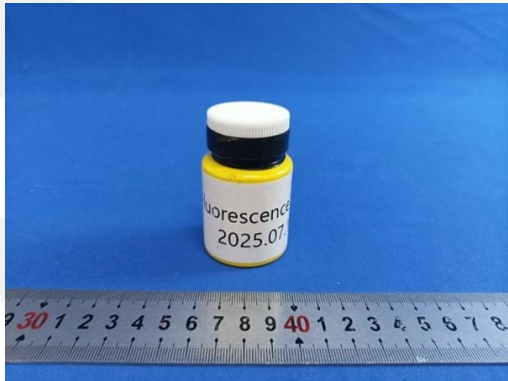
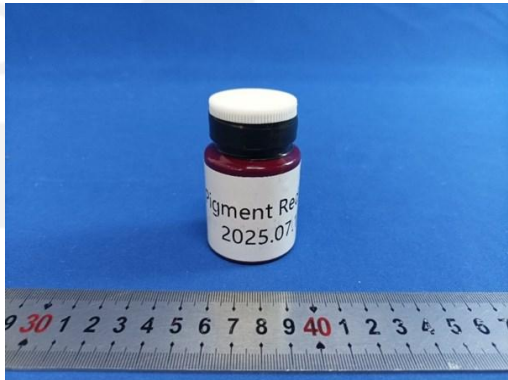
Web : <http://www.tuvsud.cn>

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

Sample	Description	Photo
010	Yellow ink (Acrylic Painter Ink - Yellow 74)	
011	Light yellow ink (Acrylic Painter Ink - Fluorescence color)	
012	Rose red ink (Acrylic Painter Ink - Red 122)	

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

Test Report

No.: 68.452.25.1815.01J

Date: 2025-08-04



T. No	Sample	Description
T1	001	Red ink (Acrylic Painter Ink - Red 254)
T2	002	Deep blue ink (Acrylic Painter Ink - Blue 15)
T3	003	Violet ink (Acrylic Painter Ink - Violet 23)
T4	004	White ink (Acrylic Painter Ink - White)
T5	005	Orange ink (Acrylic Painter Ink - Orange 73)
T6	006	Orange yellow ink (Acrylic Painter Ink - Yellow 83)
T7	007	Silvery ink (Acrylic Painter Ink - Silvery)
T8	008	Deep green ink (Acrylic Painter Ink - Green 7)
T9	009	Black ink (Acrylic Painter Ink - Black 7)
T10	010	Yellow ink (Acrylic Painter Ink - Yellow 74)
T11	011	Light yellow ink (Acrylic Painter Ink - Fluorescence color)
T12	012	Rose red ink (Acrylic Painter Ink - Red 122)



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.: 68.452.25.1815.01J

Date: 2025-08-04



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 liquid or sticky toy [mg/kg]	Result(s) [mg/kg]	
			001	002^
Soluble Aluminum	5.00	560	16.4	ND
Soluble Antimony	5.00	11.3	ND	ND
Soluble Arsenic	0.25	0.9	ND	ND
Soluble Barium	5.00	375	ND	ND
Soluble Boron	5.00	300	ND	ND
Soluble Cadmium	0.25	0.3	ND	ND
Soluble Chromium III	0.005	9.4	1.61	0.171
Soluble Chromium VI	0.005	0.005	ND	ND
Soluble Cobalt	0.25	2.6	ND	ND
Soluble Copper	5.00	156	ND	30.4
Soluble Lead	0.25	0.5	ND	ND
Soluble Manganese	5.00	300	ND	ND
Soluble Mercury	0.25	1.9	ND	ND
Soluble Nickel	5.00	18.8	ND	ND
Soluble Selenium	5.00	9.4	ND	ND
Soluble Strontium	5.00	1125	ND	ND
Soluble Tin	0.05	3750	ND	ND
Organic Tin	0.20	0.2	ND	ND
Soluble Zinc	5.00	938	ND	ND
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit in liquid or sticky toy [mg/kg]	Result(s) [mg/kg]	
			003	004
Soluble Aluminum	5.00	560	11.9	29.9
Soluble Antimony	5.00	11.3	ND	ND
Soluble Arsenic	0.25	0.9	ND	ND
Soluble Barium	5.00	375	ND	ND
Soluble Boron	5.00	300	ND	ND
Soluble Cadmium	0.25	0.3	ND	ND
Soluble Chromium III	0.005	9.4	3.91	ND
Soluble Chromium VI	0.005	0.005	ND	ND
Soluble Cobalt	0.25	2.6	ND	ND
Soluble Copper	5.00	156	15.6	ND
Soluble Lead	0.25	0.5	ND	ND
Soluble Manganese	5.00	300	ND	ND
Soluble Mercury	0.25	1.9	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.: 68.452.25.1815.01J

Date: 2025-08-04



Soluble Nickel	5.00	18.8	ND	ND
Soluble Selenium	5.00	9.4	ND	ND
Soluble Strontium	5.00	1125	ND	ND
Soluble Tin	0.05	3750	0.056	ND
Organic Tin	0.20	0.2	ND*	ND
Soluble Zinc	5.00	938	ND	ND
Conclusion			Pass	Pass

Note: Mass of trace amount of sample 003 is 98.90 mg, sample 004 is 99.90 mg

Parameter	MDL [mg/kg]	Limit in liquid or sticky toy [mg/kg]	Result(s) [mg/kg]	
			005	006
Soluble Aluminum	5.00	560	24.2	ND
Soluble Antimony	5.00	11.3	ND	ND
Soluble Arsenic	0.25	0.9	ND	ND
Soluble Barium	5.00	375	ND	ND
Soluble Boron	5.00	300	ND	ND
Soluble Cadmium	0.25	0.3	ND	ND
Soluble Chromium III	0.005	9.4	ND	0.820
Soluble Chromium VI	0.005	0.005	ND	ND
Soluble Cobalt	0.25	2.6	0.260	ND
Soluble Copper	5.00	156	ND	ND
Soluble Lead	0.25	0.5	ND	ND
Soluble Manganese	5.00	300	ND	ND
Soluble Mercury	0.25	1.9	ND	ND
Soluble Nickel	5.00	18.8	ND	ND
Soluble Selenium	5.00	9.4	ND	ND
Soluble Strontium	5.00	1125	ND	ND
Soluble Tin	0.05	3750	ND	ND
Organic Tin	0.20	0.2	ND	ND
Soluble Zinc	5.00	938	ND	ND
Conclusion			Pass	Pass

Note: Mass of trace amount of sample 005 is 98.90 mg

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.: 68.452.25.1815.01J

Date: 2025-08-04



Parameter	MDL [mg/kg]	Limit in liquid or sticky toy [mg/kg]	Result(s) [mg/kg]	
			007	008
Soluble Aluminum	5.00	560	202.9	166.2
Soluble Antimony	5.00	11.3	ND	ND
Soluble Arsenic	0.25	0.9	ND	ND
Soluble Barium	5.00	375	ND	ND
Soluble Boron	5.00	300	ND	ND
Soluble Cadmium	0.25	0.3	ND	ND
Soluble Chromium III	0.005	9.4	ND	0.246
Soluble Chromium VI	0.005	0.005	ND	ND
Soluble Cobalt	0.25	2.6	ND	ND
Soluble Copper	5.00	156	ND	112.8
Soluble Lead	0.25	0.5	ND	ND
Soluble Manganese	5.00	300	ND	ND
Soluble Mercury	0.25	1.9	ND	ND
Soluble Nickel	5.00	18.8	ND	ND
Soluble Selenium	5.00	9.4	ND	ND
Soluble Strontium	5.00	1125	ND	ND
Soluble Tin	0.05	3750	ND	1.63
Organic Tin	0.20	0.2	ND	ND*
Soluble Zinc	5.00	938	ND	ND
Conclusion			Pass	Pass

Note: Mass of trace amount of sample 007 is 99.70 mg

Parameter	MDL [mg/kg]	Limit in liquid or sticky toy [mg/kg]	Result(s) [mg/kg]	
			009	010
Soluble Aluminum	5.00	560	8.16	12.3
Soluble Antimony	5.00	11.3	ND	ND
Soluble Arsenic	0.25	0.9	ND	ND
Soluble Barium	5.00	375	ND	36.4
Soluble Boron	5.00	300	ND	ND
Soluble Cadmium	0.25	0.3	ND	ND
Soluble Chromium III	0.005	9.4	1.12	ND
Soluble Chromium VI	0.005	0.005	ND	ND
Soluble Cobalt	0.25	2.6	ND	ND
Soluble Copper	5.00	156	9.21	ND
Soluble Lead	0.25	0.5	ND	ND
Soluble Manganese	5.00	300	ND	ND
Soluble Mercury	0.25	1.9	ND	ND
Soluble Nickel	5.00	18.8	ND	ND
Soluble Selenium	5.00	9.4	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.: 68.452.25.1815.01J

Date: 2025-08-04



Soluble Strontium	5.00	1125	ND	ND
Soluble Tin	0.05	3750	ND	ND
Organic Tin	0.20	0.2	ND	ND
Soluble Zinc	5.00	938	14.5	ND
Conclusion			Pass	Pass

Note: Mass of trace amount of sample 010 is 99.00 mg

Parameter	MDL [mg/kg]	Limit in liquid or sticky toy [mg/kg]	Result(s) [mg/kg]	
			011	012
Soluble Aluminum	5.00	560	6.94	30.9
Soluble Antimony	5.00	11.3	ND	ND
Soluble Arsenic	0.25	0.9	ND	0.480
Soluble Barium	5.00	375	18.9	ND
Soluble Boron	5.00	300	ND	ND
Soluble Cadmium	0.25	0.3	ND	ND
Soluble Chromium III	0.005	9.4	ND	1.34
Soluble Chromium VI	0.005	0.005	ND	ND
Soluble Cobalt	0.25	2.6	ND	ND
Soluble Copper	5.00	156	ND	ND
Soluble Lead	0.25	0.5	ND	ND
Soluble Manganese	5.00	300	ND	ND
Soluble Mercury	0.25	1.9	ND	ND
Soluble Nickel	5.00	18.8	ND	ND
Soluble Selenium	5.00	9.4	ND	ND
Soluble Strontium	5.00	1125	ND	ND
Soluble Tin	0.05	3750	ND	ND
Organic Tin	0.20	0.2	ND	ND
Soluble Zinc	5.00	938	ND	ND
Conclusion			Pass	Pass

Note: 1. "*" denotes Organic Tin is determined by GC-MS express as Tributyl Tin

2. " ^" denotes sample was received on 2025-07-24.

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.: 68.452.25.1815.01J

Date: 2025-08-04



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 liquid or sticky toy [mg/kg]	Result(s) [mg/kg]	
			001	002^
Soluble Aluminum	5.00	560	16.4	ND
Soluble Antimony	5.00	11.3	ND	ND
Soluble Arsenic	0.25	0.9	ND	ND
Soluble Barium	5.00	375	ND	ND
Soluble Boron	5.00	300	ND	10.2
Soluble Cadmium	0.25	0.3	ND	ND
Soluble Chromium III	0.005	9.4	1.61	0.085
Soluble Chromium VI	0.005	0.005	ND	ND
Soluble Cobalt	0.25	2.6	ND	ND
Soluble Copper	5.00	156	ND	41.8
Soluble Lead	0.25	0.5	ND	0.305
Soluble Manganese	5.00	300	ND	ND
Soluble Mercury	0.25	1.9	ND	ND
Soluble Nickel	5.00	18.8	ND	ND
Soluble Selenium	5.00	9.4	ND	ND
Soluble Strontium	5.00	1125	ND	ND
Soluble Tin	0.05	3750	ND	0.200
Organic Tin	0.20	0.2	ND	ND*
Soluble Zinc	5.00	938	ND	ND
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit in liquid or sticky toy [mg/kg]	Result(s) [mg/kg]	
			003	004
Soluble Aluminum	5.00	560	22.7	29.9
Soluble Antimony	5.00	11.3	ND	ND
Soluble Arsenic	0.25	0.9	ND	ND
Soluble Barium	5.00	375	ND	ND
Soluble Boron	5.00	300	11.6	ND
Soluble Cadmium	0.25	0.3	ND	ND
Soluble Chromium III	0.005	9.4	4.79	ND
Soluble Chromium VI	0.005	0.005	ND	ND
Soluble Cobalt	0.25	2.6	ND	ND
Soluble Copper	5.00	156	28.0	ND
Soluble Lead	0.25	0.5	ND	ND
Soluble Manganese	5.00	300	ND	ND
Soluble Mercury	0.25	1.9	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.: 68.452.25.1815.01J

Date: 2025-08-04



Soluble Nickel	5.00	18.8	ND	ND
Soluble Selenium	5.00	9.4	ND	ND
Soluble Strontium	5.00	1125	ND	ND
Soluble Tin	0.05	3750	0.210	ND
Organic Tin	0.20	0.2	ND*	ND
Soluble Zinc	5.00	938	ND	ND
Conclusion			Pass	Pass

Note: Mass of trace amount of sample 003 is 99.90 mg, sample 004 is 99.90 mg

Parameter	MDL [mg/kg]	Limit in liquid or sticky toy [mg/kg]	Result(s) [mg/kg]	
			005	006
Soluble Aluminum	5.00	560	24.2	ND
Soluble Antimony	5.00	11.3	ND	ND
Soluble Arsenic	0.25	0.9	ND	ND
Soluble Barium	5.00	375	ND	ND
Soluble Boron	5.00	300	ND	ND
Soluble Cadmium	0.25	0.3	ND	ND
Soluble Chromium III	0.005	9.4	ND	0.820
Soluble Chromium VI	0.005	0.005	ND	ND
Soluble Cobalt	0.25	2.6	0.260	ND
Soluble Copper	5.00	156	ND	ND
Soluble Lead	0.25	0.5	ND	ND
Soluble Manganese	5.00	300	ND	ND
Soluble Mercury	0.25	1.9	ND	ND
Soluble Nickel	5.00	18.8	ND	ND
Soluble Selenium	5.00	9.4	ND	ND
Soluble Strontium	5.00	1125	ND	ND
Soluble Tin	0.05	3750	ND	ND
Organic Tin	0.20	0.2	ND	ND
Soluble Zinc	5.00	938	ND	ND
Conclusion			Pass	Pass

Note: - Mass of trace amount of sample 005 is 98.90 mg

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.: 68.452.25.1815.01J

Date: 2025-08-04



Parameter	MDL [mg/kg]	Limit in liquid or sticky toy [mg/kg]	Result(s) [mg/kg]	
			007	008
Soluble Aluminum	5.00	560	202.9	166.2
Soluble Antimony	5.00	11.3	ND	ND
Soluble Arsenic	0.25	0.9	ND	ND
Soluble Barium	5.00	375	ND	ND
Soluble Boron	5.00	300	ND	ND
Soluble Cadmium	0.25	0.3	ND	ND
Soluble Chromium III	0.005	9.4	ND	0.246
Soluble Chromium VI	0.005	0.005	ND	ND
Soluble Cobalt	0.25	2.6	ND	ND
Soluble Copper	5.00	156	ND	112.8
Soluble Lead	0.25	0.5	ND	ND
Soluble Manganese	5.00	300	ND	ND
Soluble Mercury	0.25	1.9	ND	ND
Soluble Nickel	5.00	18.8	ND	ND
Soluble Selenium	5.00	9.4	ND	ND
Soluble Strontium	5.00	1125	ND	ND
Soluble Tin	0.05	3750	ND	1.63
Organic Tin	0.20	0.2	ND	ND*
Soluble Zinc	5.00	938	ND	ND
Conclusion			Pass	Pass

Note: - Mass of trace amount of sample 007 is 99.70 mg

Parameter	MDL [mg/kg]	Limit in liquid or sticky toy [mg/kg]	Result(s) [mg/kg]	
			009	010
Soluble Aluminum	5.00	560	8.16	12.3
Soluble Antimony	5.00	11.3	ND	ND
Soluble Arsenic	0.25	0.9	ND	ND
Soluble Barium	5.00	375	ND	36.4
Soluble Boron	5.00	300	ND	ND
Soluble Cadmium	0.25	0.3	ND	ND
Soluble Chromium III	0.005	9.4	1.12	ND
Soluble Chromium VI	0.005	0.005	ND	ND
Soluble Cobalt	0.25	2.6	ND	ND
Soluble Copper	5.00	156	9.21	ND
Soluble Lead	0.25	0.5	ND	ND
Soluble Manganese	5.00	300	ND	ND
Soluble Mercury	0.25	1.9	ND	ND
Soluble Nickel	5.00	18.8	ND	ND
Soluble Selenium	5.00	9.4	ND	ND
Soluble Strontium	5.00	1125	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.: 68.452.25.1815.01J

Date: 2025-08-04



Soluble Tin	0.05	3750	ND	ND
Organic Tin	0.20	0.2	ND	ND
Soluble Zinc	5.00	938	14.5	ND
Conclusion			Pass	Pass

Note: Mass of trace amount of sample 010 is 99.00 mg

Parameter	MDL [mg/kg]	Limit in liquid or sticky toy [mg/kg]	Result(s) [mg/kg]	
			011	012
Soluble Aluminum	5.00	560	6.94	35.0
Soluble Antimony	5.00	11.3	ND	ND
Soluble Arsenic	0.25	0.9	ND	ND
Soluble Barium	5.00	375	18.9	ND
Soluble Boron	5.00	300	ND	ND
Soluble Cadmium	0.25	0.3	ND	ND
Soluble Chromium III	0.005	9.4	ND	1.73
Soluble Chromium VI	0.005	0.005	ND	ND
Soluble Cobalt	0.25	2.6	ND	ND
Soluble Copper	5.00	156	ND	ND
Soluble Lead	0.25	0.5	ND	0.392
Soluble Manganese	5.00	300	ND	ND
Soluble Mercury	0.25	1.9	ND	ND
Soluble Nickel	5.00	18.8	ND	ND
Soluble Selenium	5.00	9.4	ND	ND
Soluble Strontium	5.00	1125	ND	ND
Soluble Tin	0.05	3750	ND	ND
Organic Tin	0.20	0.2	ND	ND
Soluble Zinc	5.00	938	ND	ND
Conclusion			Pass	Pass

Note: 1. "*" denotes Organic Tin is determined by GC-MS express as Tributyl Tin
2. " ^" denotes sample was received on 2025-07-24.

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.: 68.452.25.1815.01J

Date: 2025-08-04



3. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 23 - Cadmium Content

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

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001	mg/kg	10.0	100	ND	Pass
002	mg/kg	10.0	100	ND	Pass
003	mg/kg	10.0	100	ND	Pass
004	mg/kg	10.0	100	ND	Pass
005	mg/kg	10.0	100	ND	Pass
006	mg/kg	10.0	100	ND	Pass
007	mg/kg	10.0	100	ND	Pass
008	mg/kg	10.0	100	ND	Pass
009	mg/kg	10.0	100	ND	Pass
010	mg/kg	10.0	100	ND	Pass
011	mg/kg	10.0	100	ND	Pass
012	mg/kg	10.0	100	ND	Pass

4. Polycyclic Aromatic Hydrocarbons (15 PAHs)

Test with reference to AfPS GS 2019:01PAK, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					001	002
Naphthalene	91-20-3	mg/kg	0.1	1	ND	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	1	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	1	ND	ND
Category					Category 1	Category 1
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.: 68.452.25.1815.01J

Date: 2025-08-04



Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					003^	004
Naphthalene	91-20-3	mg/kg	0.1	1	0.4	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	1	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	1	0.4	ND
Category Conclusion					Category 1 Pass	Category 1 Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					005	006
Naphthalene	91-20-3	mg/kg	0.1	1	ND	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	1	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	1	ND	ND
Category Conclusion					Category 1 Pass	Category 1 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.: 68.452.25.1815.01J

Date: 2025-08-04



Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					007	008
Naphthalene	91-20-3	mg/kg	0.1	1	ND	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	1	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	1	ND	ND
Category Conclusion					Category 1 Pass	Category 1 Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					009	010
Naphthalene	91-20-3	mg/kg	0.1	1	ND	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	1	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	1	ND	ND
Category Conclusion					Category 1 Pass	Category 1 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.: 68.452.25.1815.01J

Date: 2025-08-04



Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					011	012
Naphthalene	91-20-3	mg/kg	0.1	1	ND	ND
Phenanthrene	85-01-8	mg/kg	0.1	-	ND	ND
Anthracene	120-12-7	mg/kg	0.1	-	ND	ND
Fluoranthene	206-44-0	mg/kg	0.1	-	ND	ND
Pyrene	129-00-0	mg/kg	0.1	-	ND	ND
Sum of 4 PAHs	-	mg/kg	0.1	1	ND	ND
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	0.1	0.2	ND	ND
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	ND	ND
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	ND	ND
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	ND	ND
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	ND	ND
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	ND	ND
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	ND	ND
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	ND	ND
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	ND	ND
Sum of detected 15 PAHs	-	mg/kg	0.1	1	ND	ND
Category Conclusion					Category 1 Pass	Category 1 Pass

- Remark: 1. Limit according to AfPS GS 2019:01PAK :
2. “^” denotes sample was received on 2025-07-24.

Parameter	Category 1	Category 2		Category 3	
	Materials intended to be taken into the mouth, or materials in toys according to Directive 2009/48/EC or materials in articles intended for the use by children up to 3 years of age having long-term skin contact (more than 30s) within intended use	Materials that do not fall into category 1, with long-term skin contact (more than 30s) or repeated short-term skin contact within intended or foreseeable use		Materials that do neither fall into category 1 nor 2, with short-term skin contact (up to 30s) within foreseeable use	
		Used by children (mg/kg)	Other consumer products (mg/kg)	Used by children (mg/kg)	Other consumer products (mg/kg)
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoroanthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoroanthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoroanthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1

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.: 68.452.25.1815.01J

Date: 2025-08-04



Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[a,h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-c,d]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene, Pyrene, Anthracene, Fluoranthene	Sum < 1	Sum < 5	Sum < 10	Sum < 20	Sum < 50
Naphthalene	< 1	< 2	< 10	< 10	< 10
Sum 15 PAH	< 1	< 5	< 10	< 20	< 50

5. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 50 - Polycyclic Aromatic Hydrocarbons (PAHs)

Test with reference to AfPS GS 2019:01PAK, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					001	002
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAaH)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					003^	004
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAaH)	53-70-3	mg/kg	0.1	0.5	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.: 68.452.25.1815.01J

Date: 2025-08-04



Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					005	006
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					007	008
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					009	010
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	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.: 68.452.25.1815.01J

Date: 2025-08-04



Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					011	012
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	ND	ND
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	ND	ND
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	ND	ND
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	ND	ND
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	ND	ND
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	ND	ND
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	ND	ND
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	ND	ND
Conclusion					Pass	Pass

Note: “^” denotes sample was received on 2025-07-24.

6. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 51 & 52 - Phthalates Content

Test with reference to in-house method, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					001	002
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Di-isononyl phthalate, DINP	28553-12-0 /68515-48-0	%	0.005	-	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0 /68515-49-1	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	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.: 68.452.25.1815.01J

Date: 2025-08-04



Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					003	004
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Di-isononyl phthalate, DINP	28553-12-0 /68515-48-0	%	0.005	-	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0 /68515-49-1	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					005	006
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Di-isononyl phthalate, DINP	28553-12-0 /68515-48-0	%	0.005	-	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0 /68515-49-1	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	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.: 68.452.25.1815.01J

Date: 2025-08-04



Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					007	008
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Di-isononyl phthalate, DINP	28553-12-0 /68515-48-0	%	0.005	-	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0 /68515-49-1	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					009	010
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Di-isononyl phthalate, DINP	28553-12-0 /68515-48-0	%	0.005	-	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0 /68515-49-1	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	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

Test Report

No.: 68.452.25.1815.01J

Date: 2025-08-04



Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					011	012
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	ND	ND
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	ND	ND
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	ND	ND
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	ND	ND
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	ND	ND
Di-isononyl phthalate, DINP	28553-12-0 /68515-48-0	%	0.005	-	ND	ND
Di-isodecyl phthalate, DIDP	26761-40-0 /68515-49-1	%	0.005	-	ND	ND
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	ND	ND
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	ND	ND
Conclusion					Pass	Pass

-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