



# Test Report

No.T32220281029TC

Date: Jul 06, 2022

Page 1 of 5

POLYKOTE INK & PAINT (SHENZHEN) LTD.  
NO. 118, HUANG PU ROAD, SHAJING SUBDISTRICT, BAOAN, SHENZHEN, CHINA (ZIP CODE: 518125)

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

Case No. : CA322202832109  
Sample Receiving Date : JUN 21, 2022  
Testing Period : JUN 21, 2022 – JUL 06, 2022

Test Requested	Conclusion
1. ASTM F963-17 - Standard Consumer Safety Specification on Toy Safety – Heavy Elements content (Selected test items as specified by the applicant, please refer to test result page(s) for details)	--
1.1 Heavy Elements content in paint or similar surface coating materials in submitted sample in accordance with ASTM F963-17 - Standard Consumer Safety Specification on Toy Safety, Clause 4.3.5.1	PASS
2. CPSIA section 101 - Total Lead content (Selected test items as specified by the applicant, please refer to test result page(s) for details)	--
2.1 CPSIA section 101(f) (1) – Lead in paint / similar surface coating material	PASS

\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*

Signed for and on behalf of  
SGS Hong Kong Ltd.



To Man Wah, Po  
Technical Manager

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## Test Report

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Page 2 of 5

### Attachment:

FLEXOGRAPHIC & GRAVURE INK NO.:	DESCRIPTION
3M / F8101-8 / 103 / 103-5-8 / 62 / 074 / 075 / 077 / 91 / 95 / 97 / 301 / 302 / 303 / 501 / 502 / 22 / 32 / 33 / 326 / 122E / 794 / 795 / 796 / 26 / 81 / 82 / 86 / 020 / 797 / 20 / 50 / 87 / 351 / 352 / 800 / 51 / 52 / 88 / 430 / 432 / 798 / 799 / 13 / 17 / 433 / 490 / 11 / 16 / 48 / 126 / 79 / 379 / 138 / 36 / 363 / 39 / 38 / 35 / 36 / 356 / 358 / 56 / 58 / 343 / 348 / 83 / 84 / 638 / 66 / 67 / A / M	FLEXOGRAPHIC & GRAVURE INK

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**Test Results:**

**1.1. ASTM F963-17, Clause 4.3.5.1 – Heavy Elements in Paint/Similar Surface Coating Materials**

Method: With reference to CPSC-CH-E1003-09.1

Method: With reference to ASTM F963-17 Clause 8.3

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Total Lead Content

Test Item(s)	Lead (Pb)
MDL (ppm)	10
Total Limit (ppm)	90
Specimen Description	Result(s) (ppm)
1. Blue coating (3M / F8101-8 / 103 / 103-5-8 / 62 / 074 / 075 / 077 / 91 / 95 / 97 / 301 / 302 / 303 / 501 / 502 / 22 / 32 / 33 / 326 / 122E / 794 / 795 / 796 / 26 / 81 / 82 / 86 / 020 / 797 / 20 / 50 / 87 / 351 / 352 / 800 / 51 / 52 / 88 / 430 / 432 / 798 / 799 / 13 / 17 / 433 / 490 / 11 / 16 / 48 / 126 / 79 / 379 / 138 / 36 / 363 / 39 / 38 / 35 / 36 / 356 / 358 / 56 / 58 / 343 / 348 / 83 / 84 / 638 / 66 / 67 / A / M)	ND

Soluble Heavy Metal Content

Test Item(s)	Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (ppm)	5	5	2.5	10	5	5	5	10
Migration Limit (ppm)	90	60	25	1000	75	60	60	500
Specimen No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)						
1	/	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Blue coating (3M / F8101-8 / 103 / 103-5-8 / 62 / 074 / 075 / 077 / 91 / 95 / 97 / 301 / 302 / 303 / 501 / 502 / 22 / 32 / 33 / 326 / 122E / 794 / 795 / 796 / 26 / 81 / 82 / 86 / 020 / 797 / 20 / 50 / 87 / 351 / 352 / 800 / 51 / 52 / 88 / 430 / 432 / 798 / 799 / 13 / 17 / 433 / 490 / 11 / 16 / 48 / 126 / 79 / 379 / 138 / 36 / 363 / 39 / 38 / 35 / 36 / 356 / 358 / 56 / 58 / 343 / 348 / 83 / 84 / 638 / 66 / 67 / A / M)

- Note:
- ppm = parts per million
  - 1% = 10000 mg / kg = 10000 ppm = 10000 µg / g
  - MDL = Method Detection Limit
  - ND = Not Detected (lower than MDL)
  - Migration results of eight elements shown are of the adjusted analytical results
  - For Soluble Heavy Metal Content & Total Lead Content in composite: The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.

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**2.1. CPSIA - Lead in Paint/Similar Surface Coating Materials**

Method: With reference to CPSC-CH-E1003-09.1 - Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings

Test Item(s)	Lead (Pb)
Permissible Limit (ppm)	90
Specimen Description	Result(s) (ppm)
1. Blue coating (3M / F8101-8 / 103 / 103-5-8 / 62 / 074 / 075 / 077 / 91 / 95 / 97 / 301 / 302 / 303 / 501 / 502 / 22 / 32 / 33 / 326 / 122E / 794 / 795 / 796 / 26 / 81 / 82 / 86 / 020 / 797 / 20 / 50 / 87 / 351 / 352 / 800 / 51 / 52 / 88 / 430 / 432 / 798 / 799 / 13 / 17 / 433 / 490 / 11 / 16 / 48 / 126 / 79 / 379 / 138 / 36 / 363 / 39 / 38 / 35 / 36 / 356 / 358 / 56 / 58 / 343 / 348 / 83 / 84 / 638 / 66 / 67 / A / M)	ND

- Note:
- ppm = parts per million
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit = 10 ppm
  - 1% = 10000 mg / kg = 10000 ppm

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Remark:

1. The decision rule for conformity reporting is based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability,  $w=U95$ ) in ILAC-G8:09 / 2019 Clause 4.2.3.  
 "Pass - The measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band." Or "Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%."  
 "Conditional Pass - The measured values were observed in tolerance at the points tested. However, a portion of the expanded measurement uncertainty intervals about one or more measured values exceeded / out of tolerance. When the measured result is close to the tolerance, the specific false accept risk is up to 50%."  
 "Conditional Fail - One or more measured values were observed out of tolerance at the points tested. However, a portion of the expanded measurement uncertainty intervals about one or more measured values were in tolerance. When the measured result is close to the tolerance, the specific false reject risk is up to 50%."  
 "Fail - The measured Value is out of (or below / above) the tolerance limit added / subtracted to the guard band." Or "Fail - One or more measured values were observed out of tolerance at the points tested". The specific false reject risk is up to 2.5%.

Sample Photo:



SGS authenticate the photo on original report only

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

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