



## Test Report

No.T32520260337TC-01

Date: Jan 24, 2025

Page 1 of 6

POLYKOTE INK & PAINT (SHENZHEN) LTD.

NO. 118, HUANG PU ROAD, SHAJING SUBDISTRICT, BAOAN, SHENZHEN, CHINA (ZIP CODE: 518125)

This report supersedes all previous documents bearing the test report number T32520260337TC with amendment on report information as editorial change.

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

Case No. : CA325202613269  
Sample Receiving Date : JAN 13, 2025  
Testing Period : JAN 13, 2025 – JAN 22, 2025

Selected test(s) as requested by the client, please refer to test result page(s) for details:

Test Requested	Conclusion
Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019 + A1:2021 – Migration of certain elements (All Conclusive Testing)	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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.





## Test Report

No.T32520260337TC-01

Date: Jan 24, 2025

Page 2 of 6

### Attachment:

STYROLAC PAINT & INK NO.:	PAINT & INK COLOR:
6611 / 7061 / 6911 / 7001 / PS / T / 26- / S- / F / 8101-8 / 621 / 911 / M	White/Black/Fluorescent Color
6 / 7 / T / 26- / S- / 020 / 111B / 114 / 115 / 195 / 333 / B / C / 872 / M	Orange/Red/Magenta/Brown
6 / 7 / T / 26- / S- / 210 / 213 / 222 / 244A / LUMINOUS / M	Yellow
6 / 7 / T / 26- / S- / 791 / 391 / 385 / 371A / 083 / M	Green/Blue/Violet
T / 26- / S- / H / 1 / 00 / 1 / 2 / 6 / 1010 / 1032 / 1033 / 1037 / 000 / A / B / J / 1801 / 1811 / 1813 / 1818 / 1853	Silver/Pearl w/ Lacquer
2326 PAINT SERIES	Air Dry Enamel Paint

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019 + A1:2021 – Migration of certain elements**

Category III: Scraped-off toy material

Method: With reference to EN71-3:2019 + A1:2021. Analysis of general elements was performed by ICP-OES. / ICP-MS. Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV-Vis and organic tin was analyzed by GC-MS.

Test Item(s)	Result(s)			MDL	Permissible Limit
	1	2	3		
<b>Specimen No.</b>	1	2	3	--	--
<b>Mass of trace amount</b> (mg)	--	--	--	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium* (Cr) (mg/kg)	ND	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Test Item(s)	Result(s)			MDL	Permissible Limit
	4	5	6		
<b>Specimen No.</b>	4	5	6	--	--
<b>Mass of trace amount (mg)</b>	--	--	--	--	--
Soluble Aluminium (Al) (mg/kg)	ND	89	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium <sup>+</sup> (Cr) (mg/kg)	ND	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	3.6	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000

Test Item(s)	Soluble Organic Tin Result(s) (mg/kg)			MDL (mg/kg)
	1	2	3	
Methyl tin (MeT)	ND	ND	ND	0.3
Di-n-propyl tin (DProT)	ND	ND	ND	0.3
Dimethyl tin (DMT)	ND	ND	ND	0.3
Butyl tin (BuT)	ND	ND	ND	0.3
Dibutyl tin (DBT)	ND	ND	ND	0.3
Tributyl tin (TBT)	ND	ND	ND	0.3
n-Octyl tin (MOT)	ND	ND	ND	0.3
Tetrabutyl tin (TeBT)	ND	ND	ND	0.3
Diphenyl tin (DPhT)	ND	ND	ND	0.3
Di-n-octyl tin (DOT)	ND	ND	ND	0.3
Triphenyl tin (TPhT)	ND	ND	ND	0.3

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Test Item(s)	Soluble Organic Tin Result(s) (mg/kg)			MDL (mg/kg)
	4	5	6	
Methyl tin (MeT)	ND	ND	ND	0.3
Di-n-propyl tin (DProT)	ND	ND	ND	0.3
Dimethyl tin (DMT)	ND	ND	ND	0.3
Butyl tin (BuT)	ND	ND	ND	0.3
Dibutyl tin (DBT)	ND	ND	ND	0.3
Tributyl tin (TBT)	ND	ND	ND	0.3
n-Octyl tin (MOT)	ND	ND	ND	0.3
Tetrabutyl tin (TeBT)	ND	ND	ND	0.3
Diphenyl tin (DPhT)	ND	ND	ND	0.3
Di-n-octyl tin (DOT)	ND	ND	ND	0.3
Triphenyl tin (TPhT)	ND	ND	ND	0.3

**Specimen Description:**

1. White, black, fluorescent ink (6611 / 7061 / 6911 / 7001 / PS / T / 26- / S- / F / 8101-8 / 621 / 911 / M)
2. Orange, red, magenta, brown ink (6 / 7 / T / 26- / S- / 020 / 111B / 114 / 115 / 195 / 333 / B / C / 872 / M)
3. Yellow ink (6 / 7 / T / 26- / S- / 210 / 213 / 222 / 244A / LUMINOUS / M)
4. Green, blue, violet ink (6 / 7 / T / 26- / S- / 791 / 391 / 385 / 371A / 083 / M)
5. Sliver, pearl w/ lacquer ink (T / 26- / S- / H / 1 / 00 / 1 / 2 / 6 / 1010 / 1032 / 1033 / 1037 / 000 / A / B / J / 1801 / 1811 / 1813 / 1818 / 1853)
6. Air dry enamel paint ink (2326 PAINT SERIES)

- Note:
- mg/kg = milligram per kilogram
  - mg = milligram
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit
  - 1% = 10000 mg/kg = 10000 ppm
  - + Soluble Chromium is not restricted by EN71-3:2019 + A1:2021, results shown only for reference

**Remark:**

When statement of conformity is made, unless inherent in the requested specification, the decision rule would be based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability,  $w = U_{95}$ ) 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%.”.

“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%.

“Inconclusive – It is not possible to state the conformity. Either one or more measured values were observed in the portion of the expanded measurement uncertainty intervals at the points tested where the specific risk is up to 50%.”

**Sample Photo:**

Pic.1



SGS authenticate the photo on original report only

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.