



Test Report

No.T32520260339TC-01

Date: Jan 24, 2025

Page 1 of 7

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 T32520260339TC 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
1. European RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC	PASS
2. European RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU – DEHP, BBP, DBP and DIBP content	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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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

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Test Results:
1. European RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC

Cadmium, Lead, Mercury, Hexavalent Chromium, Polybromobiphenyl (PBB) and Polybromodiphenyl ether (PBDE) content

Method :

For Lead, Cadmium : With reference to IEC 62321-5:2013, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Atomic Absorption Spectrometer (AAS).

For Mercury : With reference to IEC 62321-4:2013+AMD1:2017, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

For PBB and PBDEs : With reference to IEC 62321-6:2015, analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

For Chromium (VI) : With reference to IEC 62321-7-2:2017, analysis was performed by Ultraviolet Visible Spectrophotometer (UV-Vis)

Test Item(s)	Unit	Result			MDL	Permissible Limit
		1	2	3		
Lead (Pb)	mg/kg	5	ND	ND	5	1000
Cadmium (Cd)	mg/kg	ND	ND	ND	5	100
Mercury (Hg)	mg/kg	ND	ND	ND	5	1000
Hexavalent Chromium (CrVI) by alkaline extraction	mg/kg	ND	ND	ND	5	1000
Sum of PBBs	mg/kg	ND	ND	ND	--	1000
Monobromobiphenyl	mg/kg	ND	ND	ND	5	--
Dibromobiphenyl	mg/kg	ND	ND	ND	5	--
Tribromobiphenyl	mg/kg	ND	ND	ND	5	--
Tetrabromobiphenyl	mg/kg	ND	ND	ND	5	--
Pentabromobiphenyl	mg/kg	ND	ND	ND	5	--
Hexabromobiphenyl	mg/kg	ND	ND	ND	5	--
Heptabromobiphenyl	mg/kg	ND	ND	ND	5	--
Octabromobiphenyl	mg/kg	ND	ND	ND	5	--
Nonabromobiphenyl	mg/kg	ND	ND	ND	5	--
Decabromobiphenyl	mg/kg	ND	ND	ND	5	--
Sum of PBDEs	mg/kg	ND	ND	ND	--	1000
Monobromodiphenyl ether	mg/kg	ND	ND	ND	5	--
Dibromodiphenyl ether	mg/kg	ND	ND	ND	5	--
Tribromodiphenyl ether	mg/kg	ND	ND	ND	5	--
Tetrabromodiphenyl ether	mg/kg	ND	ND	ND	5	--
Pentabromodiphenyl ether	mg/kg	ND	ND	ND	5	--
Hexabromodiphenyl ether	mg/kg	ND	ND	ND	5	--

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Test Item(s)	Unit	Result			MDL	Permissible Limit
		1	2	3		
Heptabromodiphenyl ether	mg/kg	ND	ND	ND	5	--
Octabromodiphenyl ether	mg/kg	ND	ND	ND	5	--
Nonabromodiphenyl ether	mg/kg	ND	ND	ND	5	--
Decabromodiphenyl ether	mg/kg	ND	ND	ND	5	--
Comment		PASS	PASS	PASS	--	--

Test Item(s)	Unit	Result			MDL	Permissible Limit
		4	5	6		
Lead (Pb)	mg/kg	7	ND	7	5	1000
Cadmium (Cd)	mg/kg	ND	ND	ND	5	100
Mercury (Hg)	mg/kg	ND	ND	ND	5	1000
Hexavalent Chromium (CrVI) by alkaline extraction	mg/kg	ND	ND	ND	5	1000
Sum of PBBs	mg/kg	ND	ND	ND	--	1000
Monobromobiphenyl	mg/kg	ND	ND	ND	5	--
Dibromobiphenyl	mg/kg	ND	ND	ND	5	--
Tribromobiphenyl	mg/kg	ND	ND	ND	5	--
Tetrabromobiphenyl	mg/kg	ND	ND	ND	5	--
Pentabromobiphenyl	mg/kg	ND	ND	ND	5	--
Hexabromobiphenyl	mg/kg	ND	ND	ND	5	--
Heptabromobiphenyl	mg/kg	ND	ND	ND	5	--
Octabromobiphenyl	mg/kg	ND	ND	ND	5	--
Nonabromobiphenyl	mg/kg	ND	ND	ND	5	--
Decabromobiphenyl	mg/kg	ND	ND	ND	5	--
Sum of PBDEs	mg/kg	ND	ND	ND	--	1000
Monobromodiphenyl ether	mg/kg	ND	ND	ND	5	--
Dibromodiphenyl ether	mg/kg	ND	ND	ND	5	--
Tribromodiphenyl ether	mg/kg	ND	ND	ND	5	--
Tetrabromodiphenyl ether	mg/kg	ND	ND	ND	5	--
Pentabromodiphenyl ether	mg/kg	ND	ND	ND	5	--
Hexabromodiphenyl ether	mg/kg	ND	ND	ND	5	--
Heptabromodiphenyl ether	mg/kg	ND	ND	ND	5	--
Octabromodiphenyl ether	mg/kg	ND	ND	ND	5	--
Nonabromodiphenyl ether	mg/kg	ND	ND	ND	5	--
Decabromodiphenyl ether	mg/kg	ND	ND	ND	5	--
Comment		PASS	PASS	PASS	--	--

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)

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- Note: 1. mg/kg = milligram per kilogram
2. ND = Not Detected

Remark: Results shown as ND are ignored in the sum calculation

2. European RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU –

DEHP, BBP, DBP and DIBP content

Method : With reference to IEC 62321-8:2017. Analysis was performed by Gas Chromatography / Mass Spectrometry

Test Item	CAS No.	Result (%)			Reporting Limit (%)	Permissible Limit (%)
		1	2	3		
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	0.1
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Comment	--	PASS	PASS	PASS	--	--

Test Item	CAS No.	Result (%)			Reporting Limit (%)	Permissible Limit (%)
		4	5	6		
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	0.1
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Comment	--	PASS	PASS	PASS	--	--

Specimen Description:

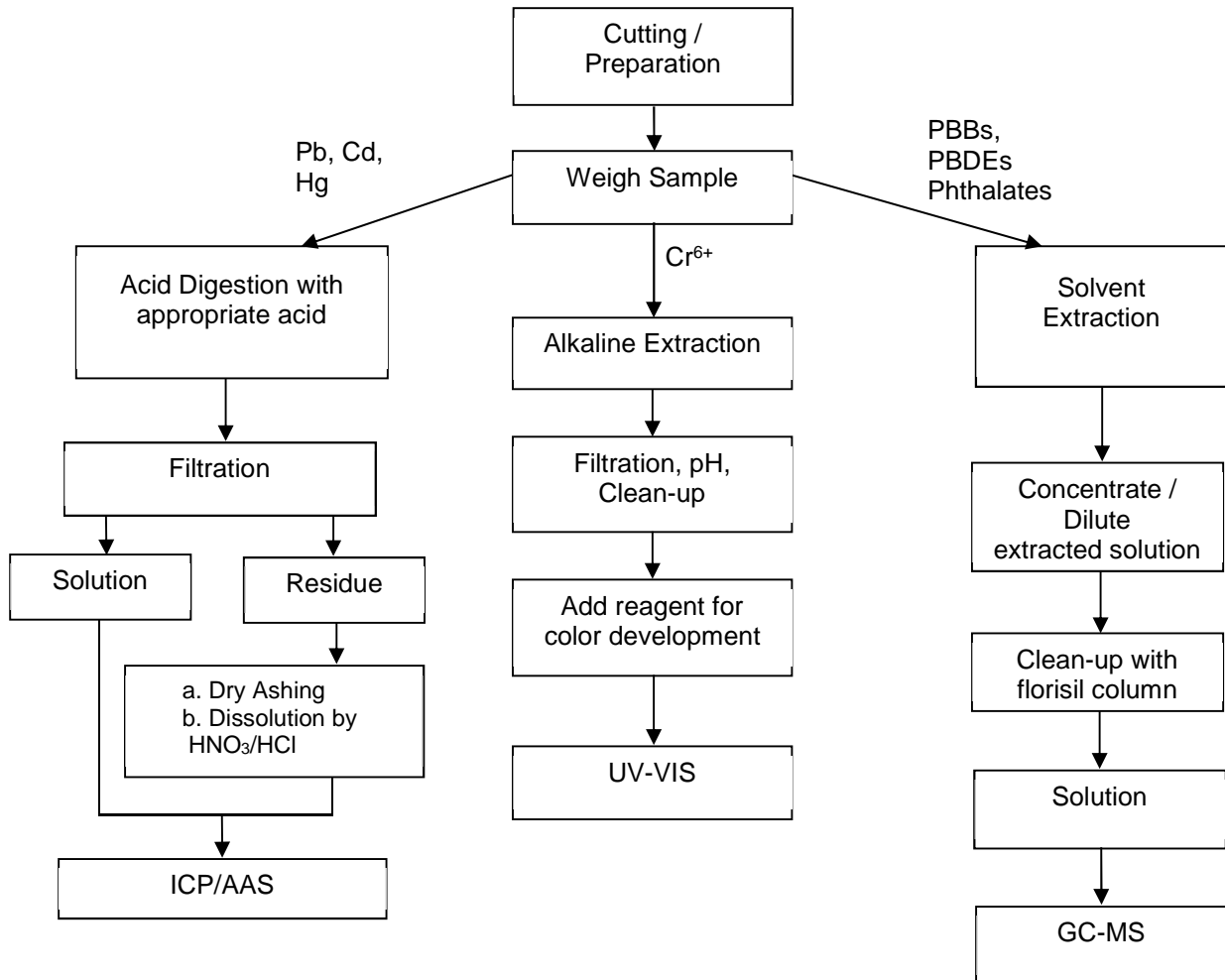
- White, black, fluorescent ink (6611 / 7061 / 6911 / 7001 / PS / T / 26- / S- / F / 8101-8 / 621 / 911 / M)
- Orange, red, magenta, brown ink (6 / 7 / T / 26- / S- / 020 / 111B / 114 / 115 / 195 / 333 / B / C / 872 / M)
- Yellow ink (6 / 7 / T / 26- / S- / 210 / 213 / 222 / 244A / LUMINOUS / M)
- Green, blue, violet ink (6 / 7 / T / 26- / S- / 791 / 391 / 385 / 371A / 083 / M)
- 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)
- Air dry enamel paint ink (2326 PAINT SERIES)

- Note: 1. mg/kg = milligram per kilogram
2. ND = Not Detected

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Flowchart:



- Note : 1. For Cr(VI), spot test is adopted for metal sample.
 2. The Cd and Pb contents test on polymeric samples were dissolved totally by pre-conditioning method according to above flow chart.

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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 ***

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