



Test Report

No.T32020210110TC

Date: JAN 16, 2020

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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

Sample Receiving Date : JAN 03, 2020

Testing Period : JAN 03, 2020 TO JAN 16, 2020

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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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.

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Member of the SGS Group (SGS SA)





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ATTACHMENT:

PAINT & INK NO.:	PAINT & INK COLOR:
939- / 99- / PVC / PT- / 539- / F / 8101 / 2 / 3 / 4 / 5 / 6 / 8	FLUORESCENT COLOR
939- / 99- / L / PT- / 539- / 5 / 9 / 611 / 622 / 621 / 1061 / S / M	WHITE
939- / 99- / L / PT- / 539- / 5 / 911 / 9922 / 1091 / M	BLACK
939- / 99- / L / PT- / 539- / 5 / 9 / 020 / 111B / 114 / 872 / M	ORANGE & RED & BROWN
939- / 99- / L / PT- / 539 / 5 / 9 / 195 / 115 / 333 / B / C / M	RED & MAGENTA
939- / 99- / L / PT- / 539- / 5 / 9 / 210 / 213 / 222 / 244A / LUMINOUS / M	YELLOW
939- / 99- / L / PT- / 539- / 5 / 9 / 791 / 391 / 385 / 371A / 081 / M	GREEN & BLUE & VIOLET
939- / 99- / L / PT- / 539- / 4S / 5 / 9900 / 1 / 2 / 6 / 10D / 37 / 82E / M	SILVER
939- / 99- / L / PT- / 539- / 5 / 9 / 8 / 00 / 0 / 1 / M	PEARL W/ LACQUER

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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. Fluorescent color ink (939- / 99- / PVC / PT- / 539- / F / 8101 / 2 / 3 / 4 / 5 / 6 / 8)	ND
2. White ink (939- / 99- / L / PT- / 539- / 5 / 9 / 611 / 622 / 621 / 1061 / S / M)	ND
3. Black ink (939- / 99- / L / PT- / 539- / 5 / 911 / 9922 / 1091 / M)	ND
4. Orange w/ red w/ brown ink (939- / 99- / L / PT- / 539- / 5 / 9 / 020 / 111B / 114 / 872 / M)	ND
5. Yellow ink (939- / 99- / L / PT- / 539- / 5 / 9 / 210 / 213 / 222 / 244A / LUMINOUS / M)	ND
6. Red w/ magenta ink (939- / 99- / L / PT- / 539 / 5 / 9 / 195 / 115 / 333 / B / C / M)	ND
7. Green w/ blue w/ violet ink (939- / 99- / L / PT- / 539- / 5 / 9 / 791 / 391 / 385 / 371A / 081 / M)	ND
8. Silver ink (939- / 99- / L / PT- / 539- / 4S / 5 / 9900 / 1 / 2 / 6 / 10D / 37 / 82E / M)	ND
9. Pearl w/ lacquer ink (939- / 99- / L / PT- / 539- / 5 / 9 / 8 / 00 / 0 / 1 / 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	24.7	ND	ND	ND	ND	ND	ND	ND	ND
2	12.3	ND	ND	ND	ND	ND	ND	ND	ND
3	16.7	ND	ND	ND	ND	ND	ND	ND	ND
4	50.7	ND	ND	ND	ND	ND	ND	ND	ND
5	18.4	ND	ND	ND	ND	ND	ND	ND	ND
6	27.9	ND	ND	ND	ND	ND	ND	ND	ND
7	26.0	ND	ND	ND	ND	ND	ND	ND	ND
8	14.4	ND	ND	ND	ND	ND	ND	ND	ND
9	76.5	ND	ND	ND	ND	ND	ND	ND	ND

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Specimen Description:

1. Fluorescent color ink (939- / 99- / PVC / PT- / 539- / F / 8101 / 2 / 3 / 4 / 5 / 6 / 8)
2. White ink (939- / 99- / L / PT- / 539- / 5 / 9 / 611 / 622 / 621 / 1061 / S / M)
3. Black ink (939- / 99- / L / PT- / 539- / 5 / 911 / 9922 / 1091 / M)
4. Orange w/ red w/ brown ink (939- / 99- / L / PT- / 539- / 5 / 9 / 020 / 111B / 114 / 872 / M)
5. Yellow ink (939- / 99- / L / PT- / 539- / 5 / 9 / 210 / 213 / 222 / 244A / LUMINOUS / M)
6. Red w/ magenta ink (939- / 99- / L / PT- / 539 / 5 / 9 / 195 / 115 / 333 / B / C / M)
7. Green w/ blue w/ violet ink (939- / 99- / L / PT- / 539- / 5 / 9 / 791 / 391 / 385 / 371A / 081 / M)
8. Silver ink (939- / 99- / L / PT- / 539- / 4S / 5 / 9900 / 1 / 2 / 6 / 10D / 37 / 82E / M)
9. Pearl w/ lacquer ink (939- / 99- / L / PT- / 539- / 5 / 9 / 8 / 00 / 0 / 1 / 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

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. Fluorescent color ink (939- / 99- / PVC / PT- / 539- / F / 8101 / 2 / 3 / 4 / 5 / 6 / 8)	ND
2. White ink (939- / 99- / L / PT- / 539- / 5 / 9 / 611 / 622 / 621 / 1061 / S / M)	ND
3. Black ink (939- / 99- / L / PT- / 539- / 5 / 911 / 9922 / 1091 / M)	ND
4. Orange w/ red w/ brown ink (939- / 99- / L / PT- / 539- / 5 / 9 / 020 / 111B / 114 / 872 / M)	ND
5. Yellow ink (939- / 99- / L / PT- / 539- / 5 / 9 / 210 / 213 / 222 / 244A / LUMINOUS / M)	ND
6. Red w/ magenta ink (939- / 99- / L / PT- / 539 / 5 / 9 / 195 / 115 / 333 / B / C / M)	ND
7. Green w/ blue w/ violet ink (939- / 99- / L / PT- / 539- / 5 / 9 / 791 / 391 / 385 / 371A / 081 / M)	ND
8. Silver ink (939- / 99- / L / PT- / 539- / 4S / 5 / 9900 / 1 / 2 / 6 / 10D / 37 / 82E / M)	ND
9. Pearl w/ lacquer ink (939- / 99- / L / PT- / 539- / 5 / 9 / 8 / 00 / 0 / 1 / 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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Sample Photo:



SGS authenticate the photo on original report only

*** End of Report ***

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