

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. : CA324203034539
 Sample Receiving Date : JUN 27, 2024
 Testing Period : JUN 27, 2024 – JUL 12, 2024

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

| Test Requested | Conclusion |
|---|------------|
| 1. ASTM F963-23 - Standard Consumer Safety Specification on Toy Safety – Heavy Elements content | -- |
| 1.1 Heavy Elements content in paint or similar surface coating materials in submitted sample in accordance with ASTM F963-23 - Standard Consumer Safety Specification on Toy Safety, Clause 4.3.5.1 | PASS |
| 2. ASTM F963-23 – Standard Consumer Safety Specification for Toy Safety, Clause 4.3.8 – Phthalates content | PASS |
| 3. CPSIA section 101 - Total Lead content | -- |
| 3.1 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

No.T32420300753TC

Date: Jul 16, 2024

Page 2 of 6

Attachment:

| FLEXOGRAPHIC & GRAVURE INK NO.: | DESCRIPTION |
|--|----------------------------|
| HR/TW/3M/F8101-8/103/-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 F963-23, Clause 4.3.5.1 – Heavy Elements in Paint/Similar Surface Coating Materials

Method: With reference to CPSC-CH-E1003-09.1 / ASTM F963-23 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 (HR/TW/3M/F8101-8/103/-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) | 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 | ND |

Specimen Description:

1. Blue coating (HR/TW/3M/F8101-8/103/-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)

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

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2. Standard Consumer Safety Specification on Toy Safety, ASTM F963-23, Clause 4.3.8 – Phthalate Content

Method: With reference to CPSC-CH-C1001-09.4

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) / High Performance Liquid Chromatography with Mass Spectrometer (HPLC-MS)

| Test Item(s) | CAS No. | Result (s) (%) | MDL (%) | Permissible Limit (%) |
|---|--------------------------|----------------|---------|-----------------------|
| Specimen No. | -- | 1 | | |
| Dibutyl Phthalate (DBP) | 84-74-2 | ND | 0.003 | 0.1 |
| Benzylbutyl Phthalate (BBP) | 85-68-7 | ND | 0.003 | 0.1 |
| Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP) | 117-81-7 | ND | 0.003 | 0.1 |
| Diisononyl Phthalate (DINP) | 28553-12-0 68515-48-0 | ND | 0.010 | 0.1 |
| Di-n-Hexyl phthalate (DHP/DnHP/DHEXP) | 84-75-3 | ND | 0.003 | 0.1 |
| Diisobutyl phthalate (DIBP) | 84-69-5 | ND | 0.003 | 0.1 |
| Di-n-pentyl phthalate (DPP/DPEP/DPENP) | 131-18-0 | ND | 0.003 | 0.1 |
| Dicyclohexyl phthalate (DCHP) | 84-61-7 | ND | 0.003 | 0.1 |

Specimen Description:

1. Blue coating (HR/TW/3M/F8101-8/103/-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)

- Note:
- % = percentage by weight
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - 1% = 10000 mg/kg = 10000 ppm

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3.1 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 (HR/TW/3M/F8101-8/103/-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) | 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:

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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