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TAIYO INK MFG. CO., LTD. 900, HIRASAWA, RANZAN-MACHI, HIKI-GUN, SAITAMA 355-0215 JAPAN

The following sample(s) was/were submitted and identified by/on behalf of the applicant as:

: TAIYO INK MFG. CO., LTD. Sample Submitted By Sample Description : S-40 B518-220Ps* (UL:S-40Z)

Style/Item No. INK

Color : GREEN Sample Receiving Date : 2018/01/03

Testing Period 2018/01/03 TO 2018/01/08

Test Requested : As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive

(EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP,

DEHP, DIBP contents in the submitted sample(s).

Test Method : Please refer to following pages. Test Result(s) : Please refer to following pages.

: Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Conclusion

Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by

RoHS and amending Directive (EU) 2015/863.





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Test Result(s)

PART NAME No.1 : GREEN INK

| Test Item(s) | Unit | Method | MDL | Result | Limit |
|----------------------------|--------|---|-----|--------|-------|
| | l oill | | | No.1 | |
| Cadmium (Cd) | mg/kg | With reference to IEC 62321-5 (2013) and performed by ICP-AES. | 2 | n.d. | 100 |
| Lead (Pb) | mg/kg | With reference to IEC 62321-5 (2013) and performed by ICP-AES. | 2 | n.d. | 1000 |
| Mercury (Hg) | mg/kg | With reference to IEC 62321-4 (2013) and performed by ICP-AES. | 2 | n.d. | 1000 |
| Hexavalent Chromium Cr(VI) | mg/kg | With reference to IEC 62321-7-2 (2017) and performed by UV-VIS. | 8 | n.d. | 1000 |
| Sum of PBBs | mg/kg | | - | n.d. | 1000 |
| Monobromobiphenyl | mg/kg | 7 | 5 | n.d. | - |
| Dibromobiphenyl | mg/kg | | 5 | n.d. | = |
| Tribromobiphenyl | mg/kg | | 5 | n.d. | - |
| Tetrabromobiphenyl | mg/kg | | 5 | n.d. | - |
| Pentabromobiphenyl | mg/kg | 1 | 5 | n.d. | - |
| Hexabromobiphenyl | mg/kg | 1 | 5 | n.d. | - |
| Heptabromobiphenyl | mg/kg | | 5 | n.d. | - |
| Octabromobiphenyl | mg/kg | | 5 | n.d. | - |
| Nonabromobiphenyl | mg/kg | | 5 | n.d. | - |
| Decabromobiphenyl | mg/kg | With reference to IEC 62321-6 | 5 | n.d. | - |
| Sum of PBDEs | mg/kg | (2015) and performed by GC/MS. | - | n.d. | 1000 |
| Monobromodiphenyl ether | mg/kg | | 5 | n.d. | - |
| Dibromodiphenyl ether | mg/kg | | 5 | n.d. | - |
| Tribromodiphenyl ether | mg/kg | | 5 | n.d. | - |
| Tetrabromodiphenyl ether | mg/kg | | 5 | n.d. | - |
| Pentabromodiphenyl ether | mg/kg | | 5 | n.d. | = |
| Hexabromodiphenyl ether | mg/kg | | 5 | n.d. | = |
| Heptabromodiphenyl ether | mg/kg | | 5 | n.d. | = |
| Octabromodiphenyl ether | mg/kg | | 5 | n.d. | = |
| Nonabromodiphenyl ether | mg/kg | | 5 | n.d. | = |
| Decabromodiphenyl ether | mg/kg | 7 | 5 | n.d. | = |

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| Test Item(s) | Unit | Method | MDL | Result | Limit |
|---|-------|---|-----|--------|-------|
| | | | | No.1 | |
| BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) | mg/kg | With reference to IEC 62321-8 -(2017). Analysis was performed by GC/MS. | 50 | n.d. | 1000 |
| DBP (Dibutyl phthalate) (CAS No.: 84-74-2) | mg/kg | | 50 | n.d. | 1000 |
| DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5) | mg/kg | | 50 | n.d. | 1000 |
| DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7) | mg/kg | | 50 | n.d. | 1000 |

Note:

1. mg/kg = ppm; 0.1wt% = 1000ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. " - " = Not Regulated



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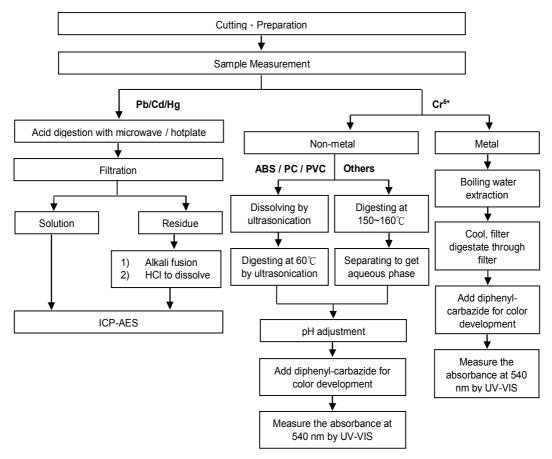
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Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)

Technician: JR Wang Supervisor: Troy Chang





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Analytical flow chart - PBB / PBDE

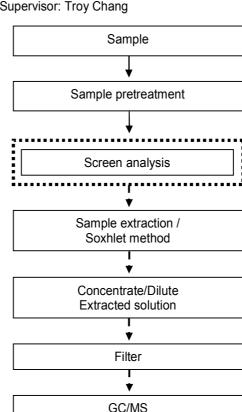
Technician: Yaling Tu

Supervisor: Troy Chang

First testing process -

Optional screen process ••••

Confirmation process





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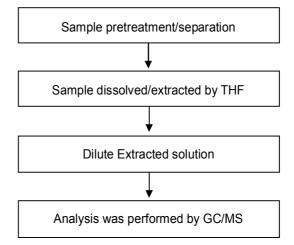
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Analytical flow chart - Phthalate

Technician: Andy Hsu Supervisor: Troy Chang

[Test method: IEC 62321-8]





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* The tested sample / part is marked by an arrow if it's shown on the photo. *

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** End of Report **