

No.: ETR25502993 Date: 26-May-2025

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 the applicant as:

Sample Submitted By : TAIYO INK MFG. CO., LTD.

Sample Name : PSR-4000 AUS308/CA-40 AUS308 (Cured) (UL:PSR-4000EY/CA-40ER)

Style/Item No. : CURED INK Color : GREEN

Sample Receiving Date

: 20-May-2025

Testing Period : 20-May-2025 to 26-May-2025

Test Requested

(1) 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).

(2) Please refer to next pages for the other item(s).

Test Results

Please refer to following pages.

Conclusion

(1) Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Troy Chang / Department Malager
Signed for and on behalf of Alwah
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



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PIN CODE: 64A803D0



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Test Part Description

No.1 : GREEN CURED INK

Test Result(s)

| Test Item(s) | Method | Unit | MDL | Result | Limit |
|----------------------------|--|-------|-----|--------|-------|
| | | | | No.1 | 100 |
| Cadmium (Cd) | With reference to IEC 62321-5: 2013, | mg/kg | 2 | n.d. | 100 |
| | analysis was performed by ICP-OES. | | | | 1000 |
| Lead (Pb) | With reference to IEC 62321-5: 2013, | mg/kg | 2 | n.d. | 1000 |
| | analysis was performed by ICP-OES. | | | | 1000 |
| Mercury (Hg) | With reference to IEC 62321-4: 2013+ | mg/kg | 2 | n.d. | 1000 |
| | AMD1: 2017, analysis was performed | | | | |
| | by ICP-OES. | | | | |
| Hexavalent Chromium Cr(VI) | With reference to IEC 62321-7-2: 2017, | mg/kg | 8 | n.d. | 1000 |
| | analysis was performed by UV-VIS. | | | | |
| Monobromobiphenyl | | mg/kg | 5 | n.d. | - |
| Dibromobiphenyl | | mg/kg | 5 | n.d. | - |
| Tribromobiphenyl | | mg/kg | 5 | n.d. | - |
| Tetrabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Pentabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Hexabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Heptabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Octabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Nonabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Decabromobiphenyl | | mg/kg | 5 | n.d. | - |
| Sum of PBBs | With reference to IEC 62321-6: 2015, | mg/kg | 1 | n.d. | 1000 |
| Monobromodiphenyl ether | analysis was performed by GC/MS. | mg/kg | 5 | n.d. | ı |
| Dibromodiphenyl ether | | mg/kg | 5 | n.d. | ı |
| 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 | 5 | n.d. | |
| Sum of PBDEs | | mg/kg | - | n.d. | 1000 |



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| Test Item(s) | Method | Unit | MDL | Result | Limit |
|--------------------------------------|---------------------------------------|-------|------|--------|-------|
| | | | | No.1 | |
| Butyl benzyl phthalate (BBP) | With reference to IEC 62321-8: 2017, | mg/kg | 50 | n.d. | 1000 |
| | analysis was performed by GC/MS. | | | | |
| Dibutyl phthalate (DBP) | With reference to IEC 62321-8: 2017, | mg/kg | 50 | n.d. | 1000 |
| | analysis was performed by GC/MS. | | | | |
| Di-(2-ethylhexyl) phthalate (DEHP) | With reference to IEC 62321-8: 2017, | mg/kg | 50 | n.d. | 1000 |
| | analysis was performed by GC/MS. | | | | |
| Diisobutyl phthalate (DIBP) | With reference to IEC 62321-8: 2017, | mg/kg | 50 | n.d. | 1000 |
| | analysis was performed by GC/MS. | | | | |
| Chlorine (Cl) (CAS No.: 22537-15-1) | With reference to BS EN 14582: 2016, | mg/kg | 50 | 160 | - |
| | analysis was performed by IC. | | | | |
| Bromine (Br) (CAS No.: 10097-32-2) | With reference to BS EN 14582: 2016, | mg/kg | 50 | 93.8 | - |
| | analysis was performed by IC. | | | | |
| Antimony (Sb) (CAS No.: 7440-36-0) | With reference to US EPA 3052: 1996, | mg/kg | 2 | n.d. | - |
| | analysis was performed by ICP-OES. | | | | |
| Perfluorooctane sulfonates and its | Modified EN 17681-1: 2022 & EN | mg/kg | 0.01 | n.d. | - |
| salts (PFOS and its salts) (CAS No.: | 17681-2: 2022, analysis was performed | | | | |
| 1763-23-1 and its salts) | by LC/MS/MS. | | | | |
| Perfluorooctanoic acid and its salts | Modified EN 17681-1: 2022 & EN | mg/kg | 0.01 | n.d. | - |
| (PFOA and its salts) (CAS No.: 335- | 17681-2: 2022, analysis was performed | | | | |
| 67-1 and its salts) | by LC/MS/MS. | | | | |
| Beryllium (Be) (CAS No.: 7440-41-7) | With reference to US EPA 3052: 1996, | mg/kg | 2 | n.d. | - |
| | analysis was performed by ICP-OES. | | | | |
| Fluorine (F) (CAS No.: 14762-94-8) | With reference to BS EN 14582: 2016, | mg/kg | 50 | n.d. | - |
| | analysis was performed by IC. | | | | |

Note:

- 1. mg/kg = ppm; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. "-" = Not Regulated
- 5. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.



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PFAS Remark:

The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.)

| Group Name | Substance Name | CAS No. |
|-------------------------------|--|-------------|
| | Perfluorooctane sulfonates (PFOS) | 1763-23-1 |
| | Potassium perfluorooctanesulfonate (PFOS-K) | 2795-39-3 |
| | Perfluorooctanesulfonic acid, lithium salt (PFOS-Li) | 29457-72-5 |
| | Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄) | 29081-56-9 |
| | Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(C2H4OH)2) | 70225-14-8 |
| | Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOSN(C_2H_5) ₄) | 56773-42-3 |
| | N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1- sulfonate (PFOS-DDA) | 251099-16-8 |
| PFOS, its salts & derivatives | TetrabutylAmmonium perfluorooctanesulfonate (PFOS- $N(C_4H_9)_4$) | 111873-33-7 |
| | Perfluorooctane sulfonyl fluoride (POSF) | 307-35-7 |
| | Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg) | 91036-71-4 |
| | Perfluorooctanesulfonic acid, sodium salt (PFOS-Na) | 4021-47-0 |
| | Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate | 71463-74-6 |
| | Perfluorooctanesulfonate (anion) | 45298-90-6 |
| | $ \begin{array}{c} \hbox{1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-} \\ \hbox{heptadecafluoro-, compd. with N,N-diethylethanamine (1:1)} \\ \hbox{(PFOS-N(C$_2$H$_5)$_3)} \end{array} $ | 54439-46-2 |
| | Methanaminium, N,N,N-trimethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1- octanesulfonate (1:1) (PFOS-N(CH ₃) ₄) | 56773-44-5 |



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| Group Name | Substance Name | CAS No. |
|-------------------------------|--|--------------|
| | | 56773-56-9 |
| | 1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1- octanesulfonate (1:1) (PFOS-N(C ₄ H ₉) ₃ (CH ₃)) | 124472-68-0 |
| | lodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1- octanesulfonate (1:1) | 213740-80-8 |
| | Sulfonium, diphenyl(2,4,6-trimethylphenyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1- octanesulfonate (1:1) | 258341-99-0 |
| PFOS, its salts & derivatives | Pyridinium, 1-hexadecyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) | 334529-63-4 |
| | 1-Decanaminium, N,N,N-triethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1- octanesulfonate (1:1) | 773895-92-4 |
| | Tetrabutylphosphonium perfluorooctane sulfonate (PFOS- $P(C_4H_9)_4$)) | 2185049-59-4 |
| | Perfluorooctanesulfonic acid diethylamine salt (PFOS-C ₄ H ₁₁ N) | 2205029-08-7 |
| | $\label{eq:heptyldimethyl} Heptyldimethyl \ \{2-[(2-methylprop-2-enoyl)oxy]ethyl\} azanium \\ perfluorooctanesulfonate (PFOS-C_{15}H_{30}NO_2)$ | 1203998-97-3 |
| | 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, 1,1'-anhydride (PFOSAN) | 423-92-7 |
| | Perfluorooctanoic acid (PFOA) | 335-67-1 |
| | Sodium perfluorooctanoate (PFOA-Na) | 335-95-5 |
| PFOA, its salts & derivatives | Potassium perfluorooctanoate (PFOA-K) | 2395-00-8 |
| | Silver perfluorooctanote (PFOA-Ag) | 335-93-3 |
| | Perfluorooctanoyl fluoride (PFOA-F) | 335-66-0 |
| | Ammonium pentadecafluorooctanoate (APFO) | 3825-26-1 |
| | Lithium perfluorooctanoate (PFOA-Li) | 17125-58-5 |
| | Cobalt perfluorooctanoate (PFOA-Co) | 35965-01-6 |
| | Cesium perfluorooctanoate (PFOA-Cs) | 17125-60-9 |
| | Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3 ⁺)) | 68141-02-6 |



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| Group Name | Substance Name | CAS No. |
|-------------------------------|--|--------------|
| | Pentadecafluorooctanoic acidpiperazine (2/1)PFOA-NH($C_4H_{10}N$) | 423-52-9 |
| | Pentadecafluorooctanoate (anion) | 45285-51-6 |
| | Perfluorooctanoic Anhydride | 33496-48-9 |
| | Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) | 98241-25-9 |
| | Tetramethylammoniumperfluoroctanoat | 32609-65-7 |
| | 1-Propanaminium, N,N,N-tripropyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) | 277749-00-5 |
| PFOA, its salts & derivatives | Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, potassium salt, hydrate (1:1:2) (PFOA-K(H ₂ O) ₂) | 98065-31-7 |
| | Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, compd. with ethanamine (1:1) (PFOA-C ₂ H ₇ N) | 1376936-03-6 |
| | Octanoic acid, pentadecafluoro-, compd. with pyridine (1:1) (9CI) (PFOA- C_5H_5N) | 95658-47-2 |
| | Pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA- $C_{10}H_{14}N_2$) | 1514-68-7 |
| | 1-Octanaminium, N,N,N-trimethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) (PFOA- C ₁₁ H ₂₆ N) | 927835-01-6 |



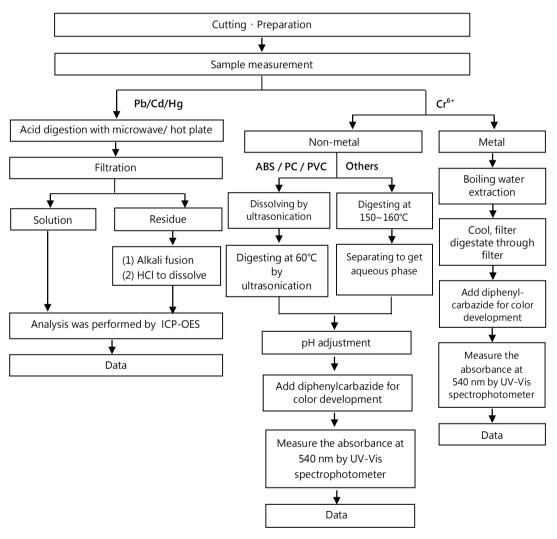
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Analytical flow chart of heavy metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.

(Cr⁶⁺ test method excluded)



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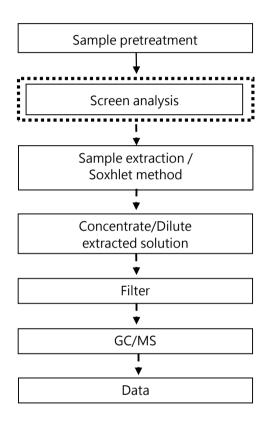
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Analytical flow chart - PBBs / PBDEs

First testing process

Optional screen process

Confirmation process



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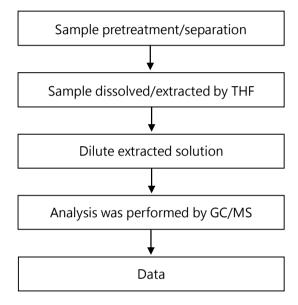


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Analytical flow chart - Phthalate

[Test method: IEC 62321-8]

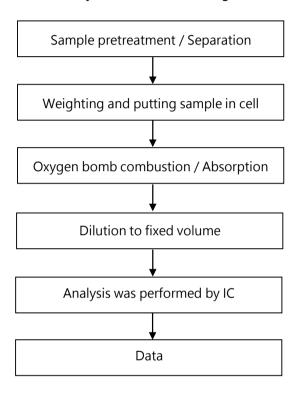




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Analytical flow chart - Halogen



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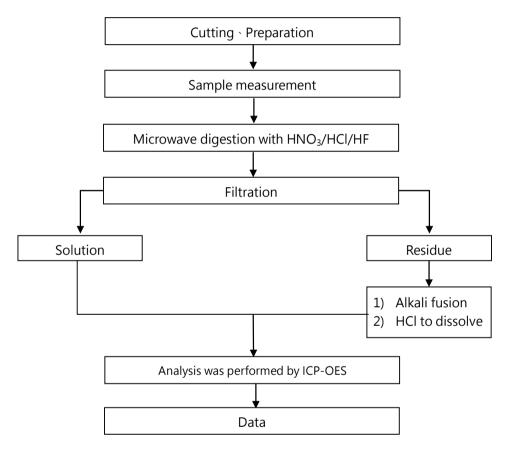
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Analytical flow chart of elements (Heavy metal included)

These samples were dissolved totally by pre-conditioning method according to below flow chart.

【Reference method: US EPA 3051A、US EPA 3052】



^{*} US EPA 3051A method does not add HF.

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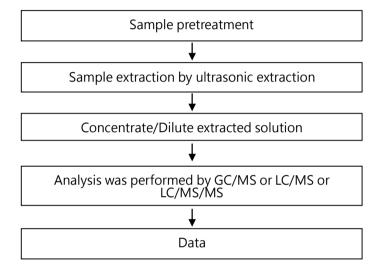
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Analytical flow chart - PFAS (including PFOA/PFOS/its related compound, etc.)



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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 **

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