



# Test Report

No.: EKR25B00190

Date: 11-Nov-2025

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SUMITOMO BAKELITE CO., LTD.

40-1 AZA-MIZUMACHI, OHOAZA-KAMIZAKAI, NOGATA-CITY, FUKUOKA, 822-0006, JAPAN

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

Sample Submitted By : SUMITOMO BAKELITE CO., LTD.  
Sample Name : EPOXY MOLDING COMPOUND  
Style/Item No. : EME-G311 TYPE SQ  
Order No. : HIN-55-835

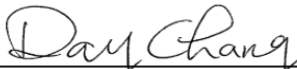
=====

Sample Receiving Date : 05-Nov-2025  
Testing Period : 05-Nov-2025 to 11-Nov-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.

  
Ray Chang, Ph.D./Department Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory-Kaohsiung



PIN CODE: 764E149E

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40-1 AZA-MIZUMACHI, OHOAZA-KAMIZAKAI, NOGATA-CITY, FUKUOKA, 822-0006, JAPAN

## TEST PART DESCRIPTION

No.1 : BLACK EPOXY MOLDING COMPOUND

## Test Result(s)

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

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40-1 AZA-MIZUMACHI, OHOAZA-KAMIZAKAI, NOGATA-CITY, FUKUOKA, 822-0006, JAPAN

| Test Item(s)                                                                                                                                                                                          | Method                                                                            | Unit  | MDL  | Result | Limit |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------|------|--------|-------|
|                                                                                                                                                                                                       |                                                                                   |       |      | No.1   |       |
| Phosphorus (P)                                                                                                                                                                                        | With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.           | mg/kg | 2    | 103    | -     |
| Antimony (Sb) (CAS No.: 7440-36-0)                                                                                                                                                                    | With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.           | mg/kg | 2    | n.d.   | -     |
| Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) | With reference to IEC 62321: 2008, analysis was performed by GC/MS.               | mg/kg | 5    | n.d.   | -     |
| Perfluorooctane sulfonates and its salts (PFOS and its salts) (CAS No.: 1763-23-1 and its salts)                                                                                                      | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d.   | -     |
| Perfluorooctanoic acid and its salts (PFOA and its salts) (CAS No.: 335-67-1 and its salts)                                                                                                           | Modified EN 17681-1: 2022 & EN 17681-2: 2022, analysis was performed by LC/MS/MS. | mg/kg | 0.01 | n.d.   | -     |
| Fluorine (F) (CAS No.: 14762-94-8)                                                                                                                                                                    | With reference to BS EN 14582: 2016, analysis was performed by IC.                | mg/kg | 50   | n.d.   | -     |
| Chlorine (Cl) (CAS No.: 22537-15-1)                                                                                                                                                                   |                                                                                   | mg/kg | 50   | 78.2   | -     |
| Bromine (Br) (CAS No.: 10097-32-2)                                                                                                                                                                    |                                                                                   | mg/kg | 50   | n.d.   | -     |
| Iodine (I) (CAS No.: 14362-44-8)                                                                                                                                                                      |                                                                                   | mg/kg | 50   | n.d.   | -     |
| Dibutyl phthalate (DBP)                                                                                                                                                                               | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.             | mg/kg | 50   | n.d.   | 1000  |
| Di-(2-ethylhexyl) phthalate (DEHP)                                                                                                                                                                    | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.             | mg/kg | 50   | n.d.   | 1000  |
| Diisobutyl phthalate (DIBP)                                                                                                                                                                           | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.             | mg/kg | 50   | n.d.   | 1000  |
| Butyl benzyl phthalate (BBP)                                                                                                                                                                          | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.             | mg/kg | 50   | n.d.   | 1000  |
| Diisopentyl phthalate (DIPP) (CAS No.: 605-50-5)                                                                                                                                                      | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.             | mg/kg | 50   | n.d.   | -     |
| Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0)                                                                                                                                         | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.             | mg/kg | 50   | n.d.   | -     |
| Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)                                                                                                                                                       | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.             | mg/kg | 50   | n.d.   | -     |
| Di-n-hexyl phthalate (DNHP) (CAS No.: 84-75-3)                                                                                                                                                        | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.             | mg/kg | 50   | n.d.   | -     |

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| Test Item(s)                                                                                          | Method                                                                | Unit  | MDL | Result | Limit |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------|-----|--------|-------|
|                                                                                                       |                                                                       |       |     | No.1   |       |
| Bis(2-methoxyethyl) phthalate (DMEP) (CAS No.: 117-82-8)                                              | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50  | n.d.   | -     |
| Di-pentyl phthalate (DPP) (CAS No.: 131-18-0)                                                         | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50  | n.d.   | -     |
| 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6)     | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50  | n.d.   | -     |
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) (CAS No.: 68515-42-4) | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50  | n.d.   | -     |
| Diisodecyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1)                                         | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50  | n.d.   | -     |
| Diisooctyl phthalate (DIOP) (CAS No.: 27554-26-3)                                                     | With reference to IEC 62321-8: 2017, analysis was performed by GC/MS. | mg/kg | 50  | n.d.   | -     |

## 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.     |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| PFOS, its salts & derivatives | 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 <sub>4</sub> )                                                                                                                              | 29081-56-9  |
|                               | Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(C <sub>2</sub> H <sub>4</sub> OH) <sub>2</sub> )                                                                                          | 70225-14-8  |
|                               | Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )                                                                                     | 56773-42-3  |
|                               | N-decyl-N,N-dimethyldecyl-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate (PFOS-DDA)                                                                                   | 251099-16-8 |
|                               | Tetrabutylammonium perfluorooctanesulfonate (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )                                                                                               | 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-heptafluorooctanesulfonate                                                                                                                          | 71463-74-6  |
|                               | Perfluorooctanesulfonate (anion)                                                                                                                                                                 | 45298-90-6  |
|                               | 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluoro-, compd. with N,N-diethylethanamine (1:1) (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )                            | 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-heptafluoro-1-octanesulfonate (1:1) (PFOS-N(CH <sub>3</sub> ) <sub>4</sub> )                                                  | 56773-44-5  |
|                               | 1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluoro-1-octanesulfonate (1:1) (PFOS-N(C <sub>3</sub> H <sub>7</sub> ) <sub>3</sub> (C <sub>5</sub> H <sub>11</sub> )) | 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-heptafluoro-1-octanesulfonate (1:1) (PFOS-N(C <sub>4</sub> H <sub>9</sub> ) <sub>3</sub> (CH <sub>3</sub> ))            | 124472-68-0 |

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| Group Name                    | Substance Name                                                                                                                             | CAS No.      |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| PFOS, its salts & derivatives | Iodonium, 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  |
|                               | 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 <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )                                     | 2185049-59-4 |
|                               | Perfluorooctanesulfonic acid diethylamine salt (PFOS-C <sub>4</sub> H <sub>11</sub> N)                                                     | 2205029-08-7 |
|                               | Heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium perfluorooctanesulfonate (PFOS-C <sub>15</sub> H <sub>30</sub> NO <sub>2</sub> ) | 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     |
|                               | Perfluoro-1-octanesulfonyl chloride (PFOS-Cl)                                                                                              | 423-60-9     |
|                               | Perfluorooctanoic acid (PFOA)                                                                                                              | 335-67-1     |
| PFOA, its salts & derivatives | Sodium perfluorooctanoate (PFOA-Na)                                                                                                        | 335-95-5     |
|                               | Potassium perfluorooctanoate (PFOA-K)                                                                                                      | 2395-00-8    |
|                               | Silver perfluorooctanoate (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 <sup>+</sup> ))                                     | 68141-02-6   |
|                               | Pentadecafluorooctanoic acid--piperazine (2/1)PFOA-NH(C <sub>4</sub> H <sub>10</sub> 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   |
|                               | Tetramethylammoniumperfluorooctanoat                                                                                                       | 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  |

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40-1 AZA-MIZUMACHI, OHOAZA-KAMIZAKAI, NOGATA-CITY, FUKUOKA, 822-0006, JAPAN

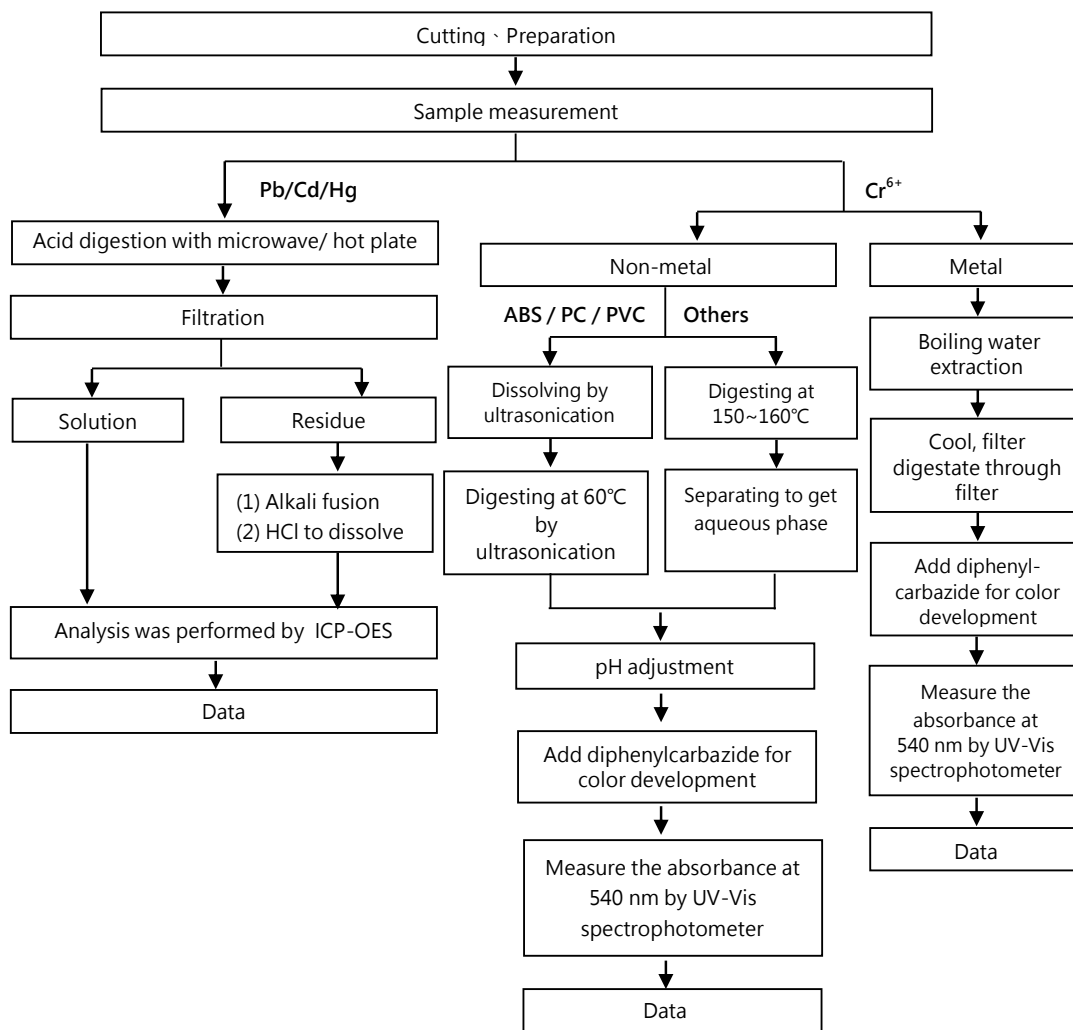
| Group Name                    | Substance Name                                                                                                                          | CAS No.      |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 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 <sub>2</sub> O) <sub>2</sub> ) | 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 <sub>2</sub> H <sub>7</sub> N)      | 1376936-03-6 |
|                               | Octanoic acid, pentadecafluoro-, compd. with pyridine (1:1) (9CI) (PFOA-C <sub>5</sub> H <sub>5</sub> N)                                | 95658-47-2   |
|                               | Pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> )                            | 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)                                          | 927835-01-6  |
|                               | Pentadecafluorooctanoyl chloride (PFOA-Cl)                                                                                              | 335-64-8     |

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## Analytical flow chart of heavy metal

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

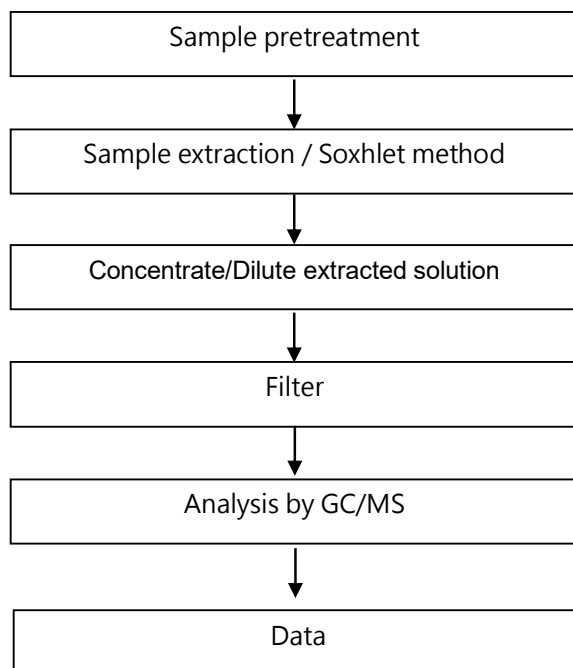
( Cr<sup>6+</sup> test method excluded )



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## PBB/PBDE analytical FLOW CHART



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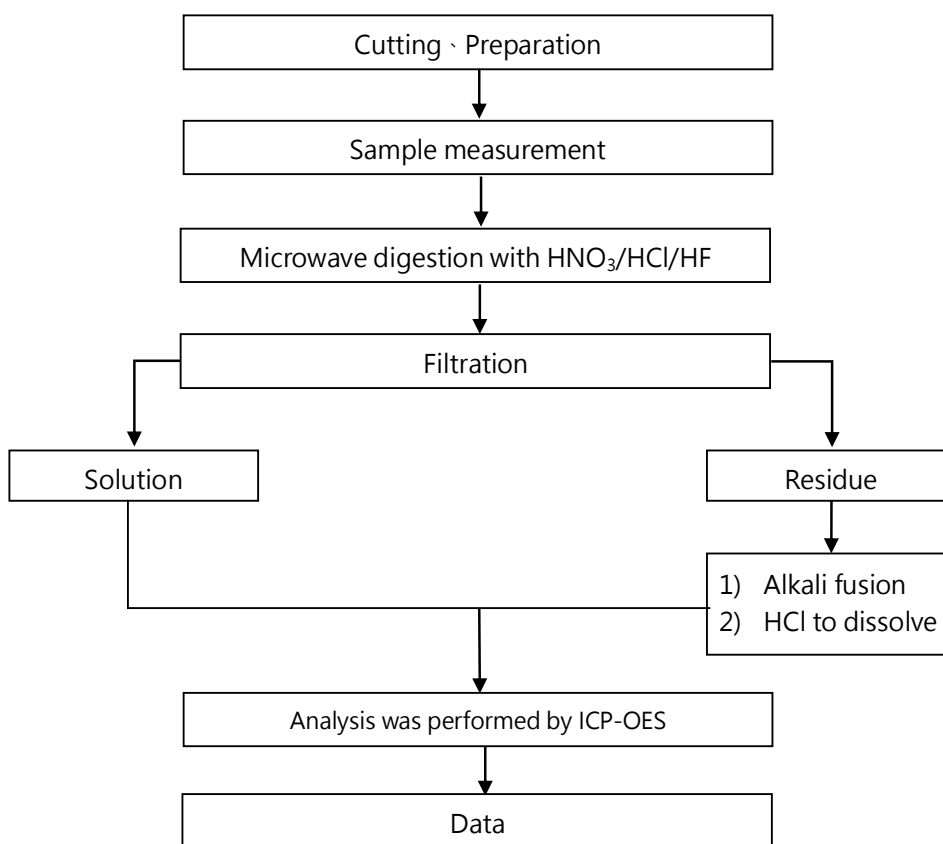
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## Analytical flow chart of elements (Heavy metal included)

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

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



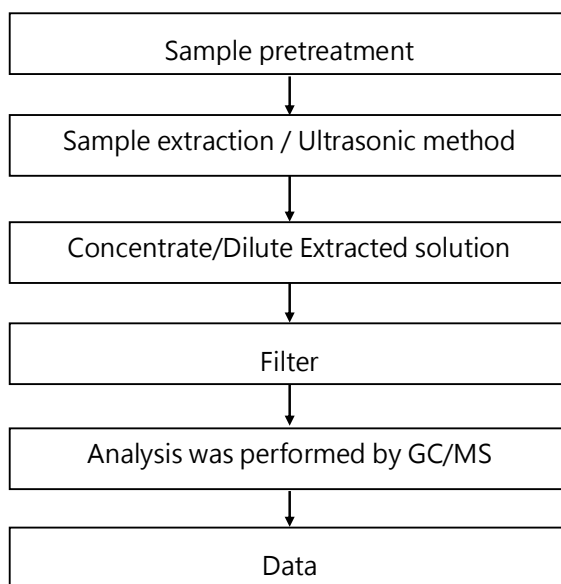
\* US EPA 3051A method does not add HF.

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## Analytical flow chart - HBCDD

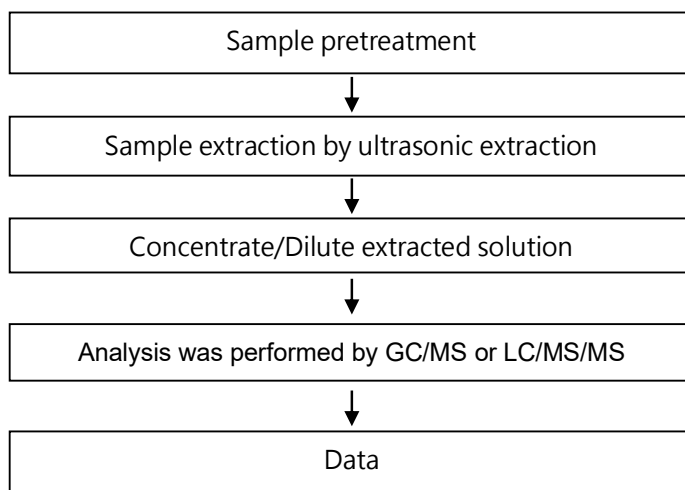


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## Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)

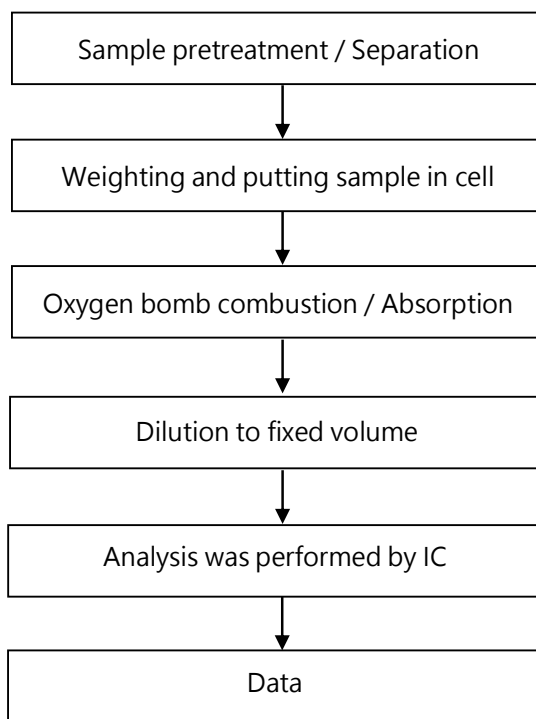


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## Analytical flow chart - Halogen



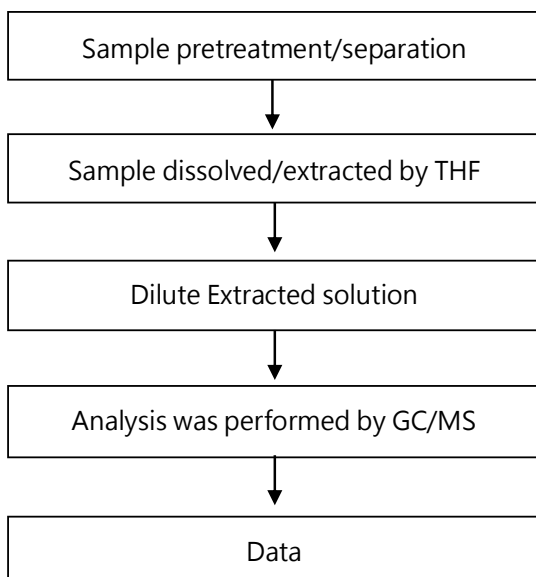
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## Analytical flow chart of phthalate content

【 Test method: IEC 62321-8 】



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## Test Report

No.: EKR25B00190

Date: 11-Nov-2025

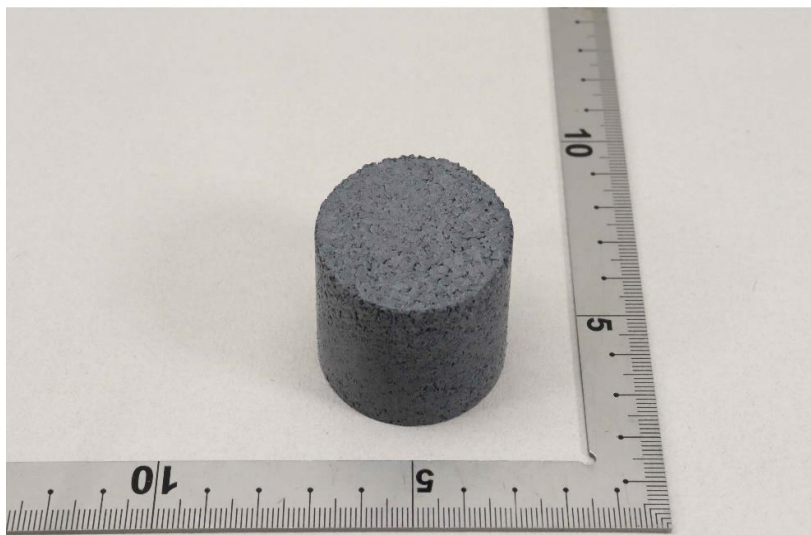
Page: 15 of 15

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

### EKR25B00190



\*\* End of Report \*\*

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