

## Test Report

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Date : 2016/01/29

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CROWN FERRITE ENTERPRISE CO.

17, ALLEY 14, LANE 165, KANG-NING RD., SEC. 3, NEI-HU DISTRICT, TAIPEI, TAIWAN



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

Sample Submitted By : CROWN FERRITE ENTERPRISE CO.  
Sample Description : FLEXIBLE ABSORBENT MATERIAL  
Style/Item No. : FAM1  
Sample Receiving Date : 2016/01/22  
Testing Period : 2016/01/22 TO 2016/01/29

### 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.
- (2) As specified by client, to test PFOA, PFOS contents in the submitted sample.

Test Result(s) : Please refer to next page(s).

  
  
Troy Chang, Manager - Tech  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei

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## Test Result(s)

PART NAME No.1 : BLACK PAD

| Test Item(s)               | Unit  | Method  | MDL  | Result |
|----------------------------|-------|---|------|--------|
|                            |       |   |      | No.1   |
| Cadmium (Cd)               | mg/kg | With reference to IEC 62321-5: 2013 and performed by ICP-AES. | 2    | n.d.   |
| Lead (Pb)                  | mg/kg | With reference to IEC 62321-5: 2013 and performed by ICP-AES. | 2    | n.d.   |
| Mercury (Hg)               | mg/kg | With reference to IEC 62321-4: 2013 and performed by ICP-AES. | 2    | n.d.   |
| Hexavalent Chromium Cr(VI) | mg/kg | With reference to IEC 62321: 2008 and performed by UV-VIS.    | 2    | n.d.   |
| <b>Sum of PBBs</b>         | mg/kg | With reference to IEC 62321-6: 2015 and performed by GC/MS.   | -    | n.d.   |
| 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.   |
| <b>Sum of PBDEs</b>        | mg/kg |   | -    | n.d.   |
| 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 | 5   | n.d. |        |

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| Test Item(s)  | Unit  | Method   | MDL | Result |
|---|-------|--|-----|--------|
|   |       |  |     | No.1   |
| BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)           | mg/kg | With reference to IEC 62321-8 (111/321/CD). Analysis was performed by GC/MS. | 50  | n.d.   |
| DBP (Dibutyl phthalate) (CAS No.: 84-74-2)                | mg/kg |  | 50  | n.d.   |
| DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)           | mg/kg |  | 50  | n.d.   |
| DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)   | mg/kg |  | 50  | n.d.   |
| Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide) | mg/kg | With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.       | 10  | n.d.   |
| PFOA (CAS No.: 335-67-1)                                  | mg/kg |  | 10  | n.d.   |

**Note :**

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated

**PFOS Reference Information : POPs - (EU) 757/2010**

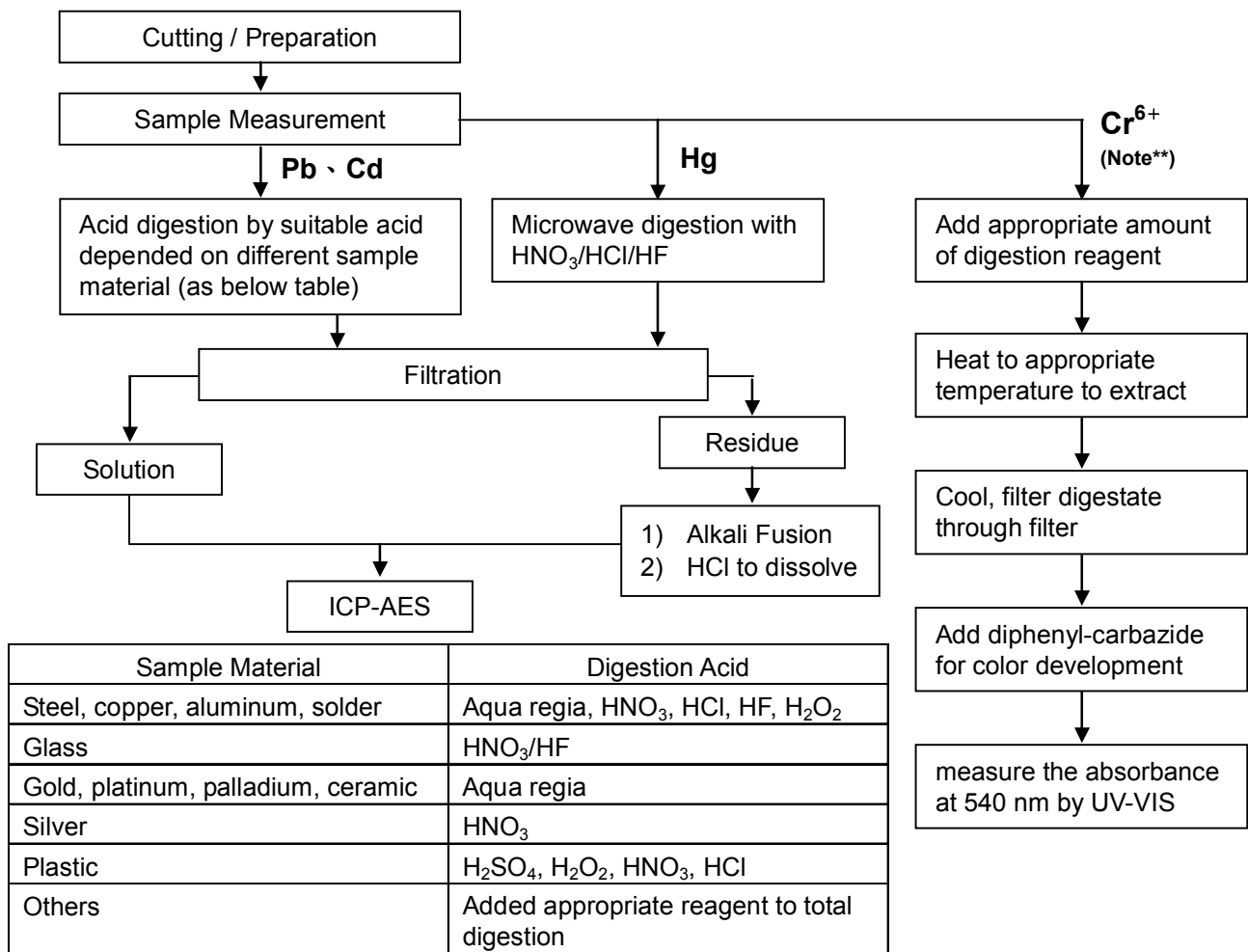
Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1µg/m<sup>2</sup>.

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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
(Cr<sup>6+</sup> test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



**Note\*\* (For IEC 62321)**

- (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95°C.
- (2) For metallic material, add pure water and heat to boiling.

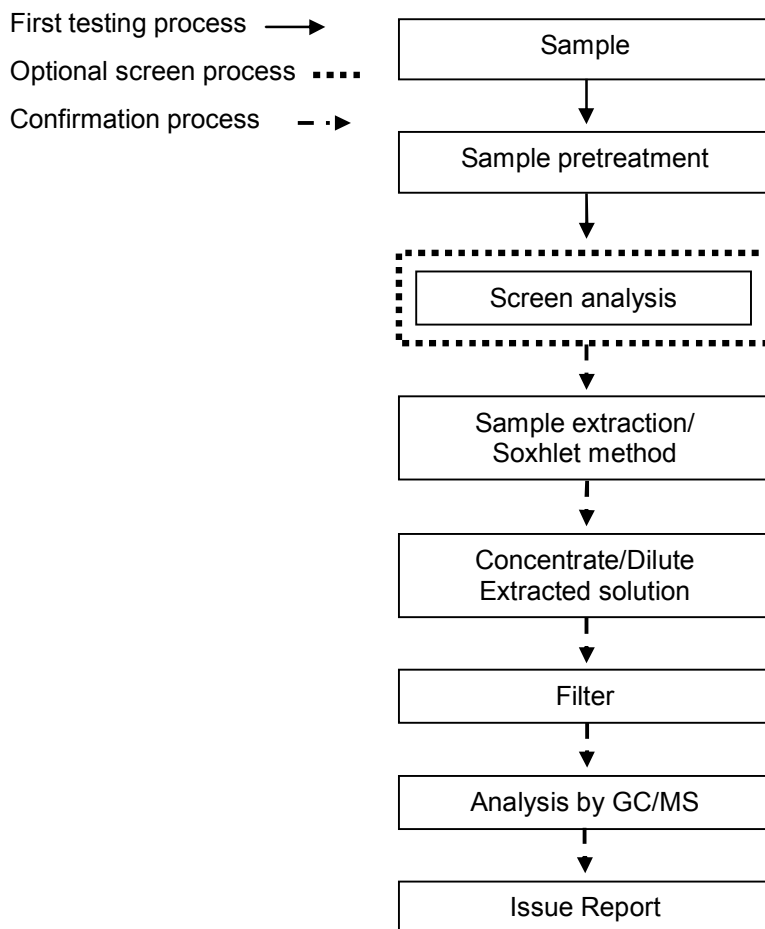
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### PBB/PBDE analytical FLOW CHART

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang



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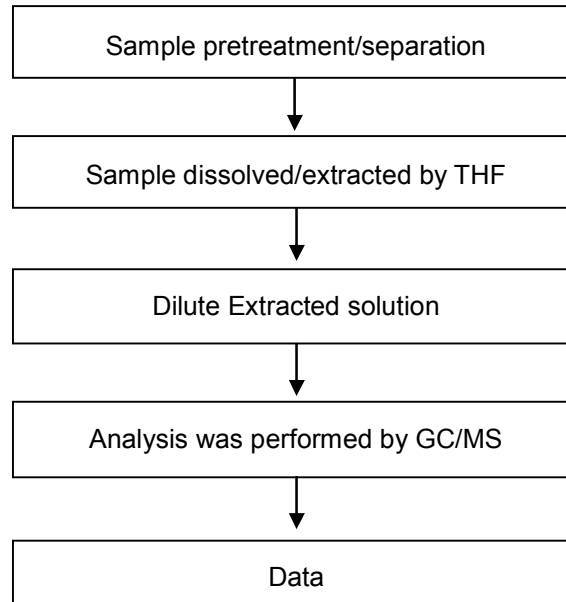
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### Analytical flow chart of phthalate content

- Name of the person who made measurement: Andy Shu
- Name of the person in charge of measurement: Troy Chang

#### 【Test method: IEC 62321-8】



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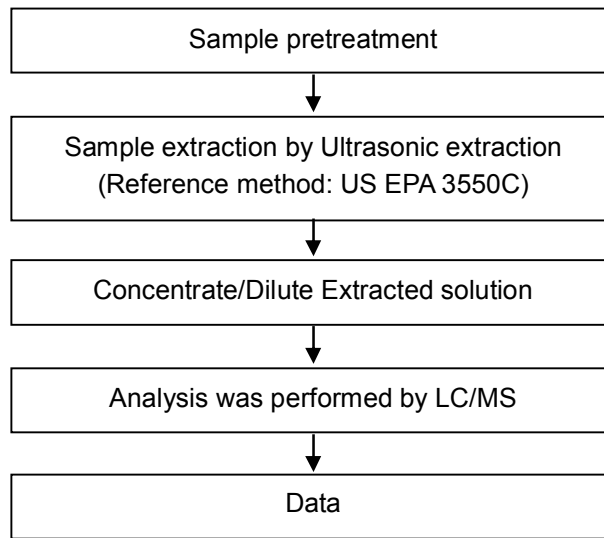
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### PFOA/PFOS analytical flow chart of Ultrasonic extraction (LC/MS) procedure

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang



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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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