

Test Report

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Date : 2020/01/17

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GRAND PACIFIC PETROCHEMICAL CORPORATION
10 FL., NO. 1, SEC. 4, NANJING E. ROAD, TAIPEI, TAIWAN R.O.C

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

Sample Submitted By : GRAND PACIFIC PETROCHEMICAL CORP.
Sample Description : ABS
Style/Item No. : D-470
Sample Receiving Date : 2020/01/10
Testing Period : 2020/01/10 to 2020/01/17

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.

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

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

Conclusion : 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. / Manager
Signed for and on behalf of
SGS Taiwan Limited
Chemical Laboratory-Kaohsiung



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Test Result(s)

PART NAME No.1 : WHITE PELLETS

| Test Item(s) | Unit | Method | MDL | Result | Limit |
|----------------------------|-------|--|-------|---|-------|
| | | | | No.1 | |
| Cadmium (Cd) | mg/kg | With reference to IEC 62321-5: 2013 and performed by ICP-OES. | 2 | n.d. | 100 |
| Lead (Pb) | mg/kg | With reference to IEC 62321-5: 2013 and performed by ICP-OES. | 2 | n.d. | 1000 |
| Mercury (Hg) | mg/kg | With reference to IEC 62321-4:2013+AMD1:2017 and performed by ICP-OES. | 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 | With reference to IEC 62321-6: 2015 and performed by GC/MS. | - | n.d. | 1000 |
| Monobromobiphenyl | | | 5 | n.d. | - |
| Dibromobiphenyl | | | 5 | n.d. | - |
| Tribromobiphenyl | | | 5 | n.d. | - |
| Tetrabromobiphenyl | | | 5 | n.d. | - |
| Pentabromobiphenyl | | | 5 | n.d. | - |
| Hexabromobiphenyl | | | 5 | n.d. | - |
| Heptabromobiphenyl | | | 5 | n.d. | - |
| Octabromobiphenyl | | | 5 | n.d. | - |
| Nonabromobiphenyl | | | 5 | n.d. | - |
| Decabromobiphenyl | | | 5 | n.d. | - |
| Sum of PBDEs | | | mg/kg | With reference to IEC 62321-6: 2015 and performed by GC/MS. | - |
| Monobromodiphenyl ether | 5 | n.d. | | | - |
| Dibromodiphenyl ether | 5 | n.d. | | | - |
| Tribromodiphenyl ether | 5 | n.d. | | | - |
| Tetrabromodiphenyl ether | 5 | n.d. | | | - |
| Pentabromodiphenyl ether | 5 | n.d. | | | - |
| Hexabromodiphenyl ether | 5 | n.d. | | | - |
| Heptabromodiphenyl ether | 5 | n.d. | | | - |
| Octabromodiphenyl ether | 5 | n.d. | | | - |
| Nonabromodiphenyl ether | 5 | n.d. | | | - |
| Decabromodiphenyl ether | 5 | n.d. | | | - |

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

Note :

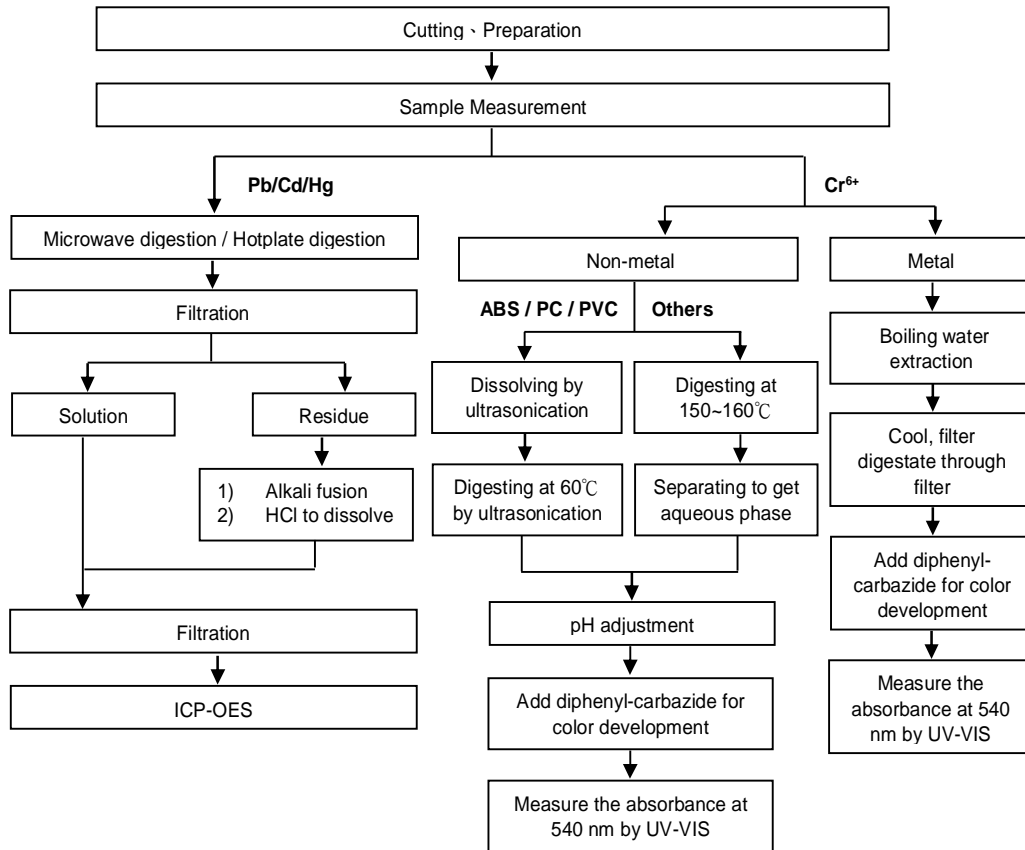
1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated

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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 : Jony Liu
- Supervisor: Ray Chang

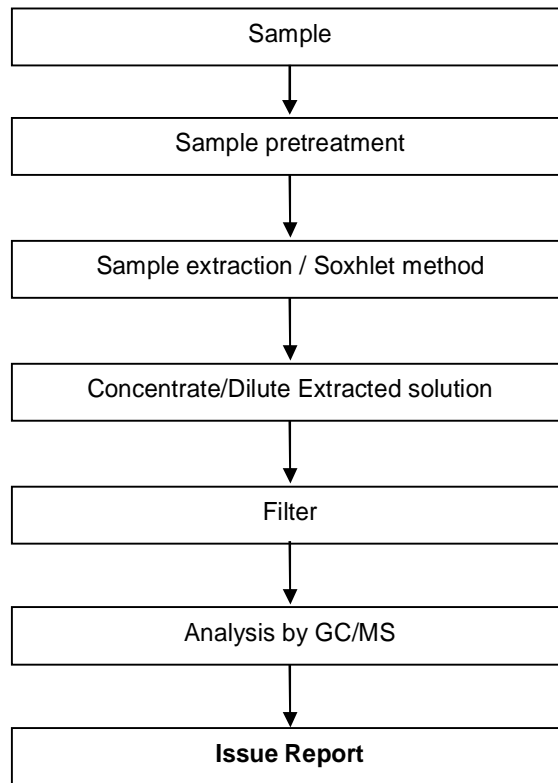


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PBB/PBDE analytical FLOW CHART

- Technician : Dorothy Chen
- Supervisor: Ray Chang



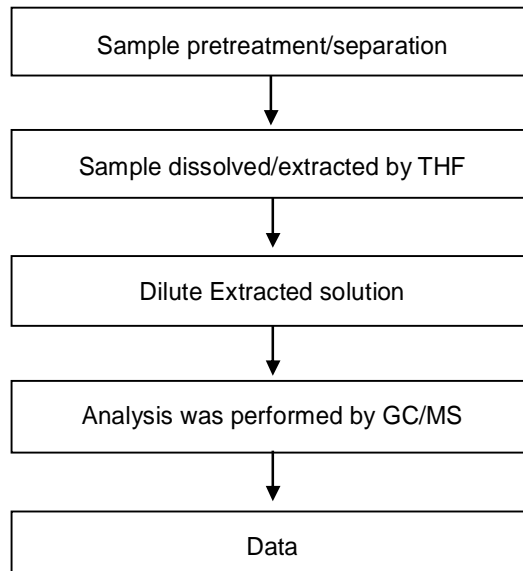
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Analytical flow chart of phthalate content

- Technician: Dorothy Chen
- Supervisor: Ray 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 **