

Test Report

No. : KA/2011/10064

Date : 2011/01/07

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GRAND PACIFIC PETROCHEMICAL CORPORATION
No.4 HSING KUNG RD. TA-SHE INDUSTRIAL DISTRICT KAOHSIUNG,81567
TAIWAN. R.O.C.



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

Sample Description : HIPS
Style/Item No. : PS-333
Sample Receiving Date : 2011/01/03
Testing Period : 2011/01/03 TO 2011/01/07

=====
Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.
Test Method : With reference to IEC 62321: 2008 Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.
(1) Determination of Cadmium by ICP-AES.
(2) Determination of Lead by ICP-AES.
(3) Determination of Mercury by ICP-AES.
(4) Determination of Hexavalent Chromium by UV/Vis Spectrometry.
(5) Determination of PBB and PBDE by GC/MS.
Test Result(s) : Please refer to next page(s).
Conclusion : Based upon the performed tests by submitted samples, the test results **comply with** the limits of RoHS Directive 2002/95/EC and its subsequent amendments.

Ray Chang

Ray Chang / Asst. Manager
Signed for and on behalf of
SGS Taiwan Limited





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Test results by chemical method (Unit: mg/kg)

| Test Item (s): | Method (Refer to) | Result | MDL | RoHS Limit |
|---|-------------------|--------|-----|------------|
| | | No.1 | | |
| Cadmium (Cd) | (1) | n.d. | 2 | 100 |
| Lead (Pb) | (2) | n.d. | 2 | 1000 |
| Mercury (Hg) | (3) | n.d. | 2 | 1000 |
| Hexavalent Chromium Cr(VI) by alkaline extraction | (4) | n.d. | 2 | 1000 |
| Sum of PBBs | (5) | n.d. | - | 1000 |
| Monobromobiphenyl | | n.d. | 5 | - |
| Dibromobiphenyl | | n.d. | 5 | - |
| Tribromobiphenyl | | n.d. | 5 | - |
| Tetrabromobiphenyl | | n.d. | 5 | - |
| Pentabromobiphenyl | | n.d. | 5 | - |
| Hexabromobiphenyl | | n.d. | 5 | - |
| Heptabromobiphenyl | | n.d. | 5 | - |
| Octabromobiphenyl | | n.d. | 5 | - |
| Nonabromobiphenyl | | n.d. | 5 | - |
| Decabromobiphenyl | | n.d. | 5 | - |
| Sum of PBDEs | | n.d. | - | 1000 |
| Monobromodiphenyl ether | | n.d. | 5 | - |
| Dibromodiphenyl ether | | n.d. | 5 | - |
| Tribromodiphenyl ether | | n.d. | 5 | - |
| Tetrabromodiphenyl ether | | n.d. | 5 | - |
| Pentabromodiphenyl ether | | n.d. | 5 | - |
| Hexabromodiphenyl ether | | n.d. | 5 | - |
| Heptabromodiphenyl ether | | n.d. | 5 | - |
| Octabromodiphenyl ether | | n.d. | 5 | - |
| Nonabromodiphenyl ether | n.d. | 5 | - | |
| Decabromodiphenyl ether | n.d. | 5 | - | |

TEST PART DESCRIPTION:

NO.1 : WHITE HIPS

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- 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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SGS Taiwan Ltd.
台灣檢驗科技股份有限公司

No. 61, Kai-Fa Road, Nanzih Export Processing Zone, Kaohsiung, Taiwan /
t + 886 (07)301 2121

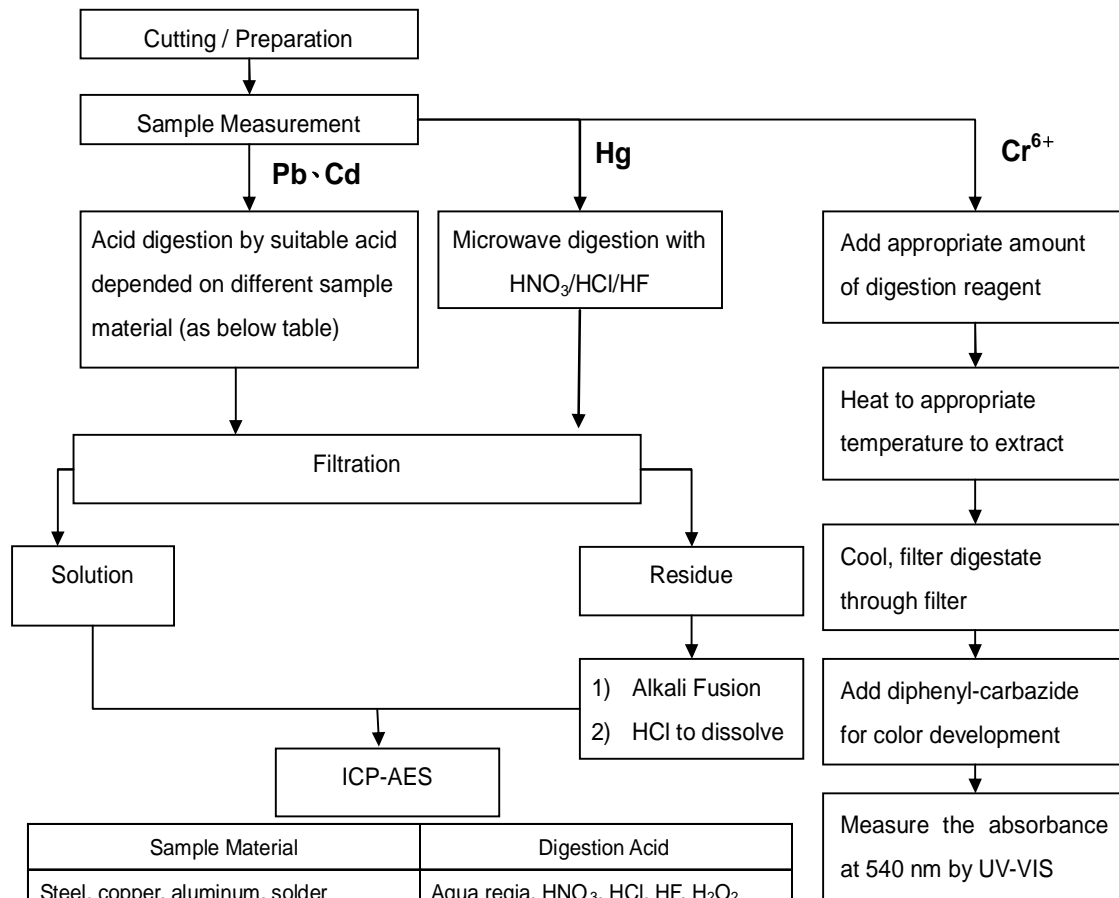
高雄市楠梓加工出口區開發路61號
f + 886 (07)3010867
www.tw.sgs.com

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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Alex Chang
- 3) Name of the person in charge of measurement: Ray Chang



| Sample Material | Digestion Acid |
|------------------------------------|---|
| Steel, copper, aluminum, solder | Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂ |
| Glass | HNO ₃ /HF |
| Gold, platinum, palladium, ceramic | Aqua regia |
| Silver | HNO ₃ |
| Plastic | H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl |
| Others | Any acid to total digestion |

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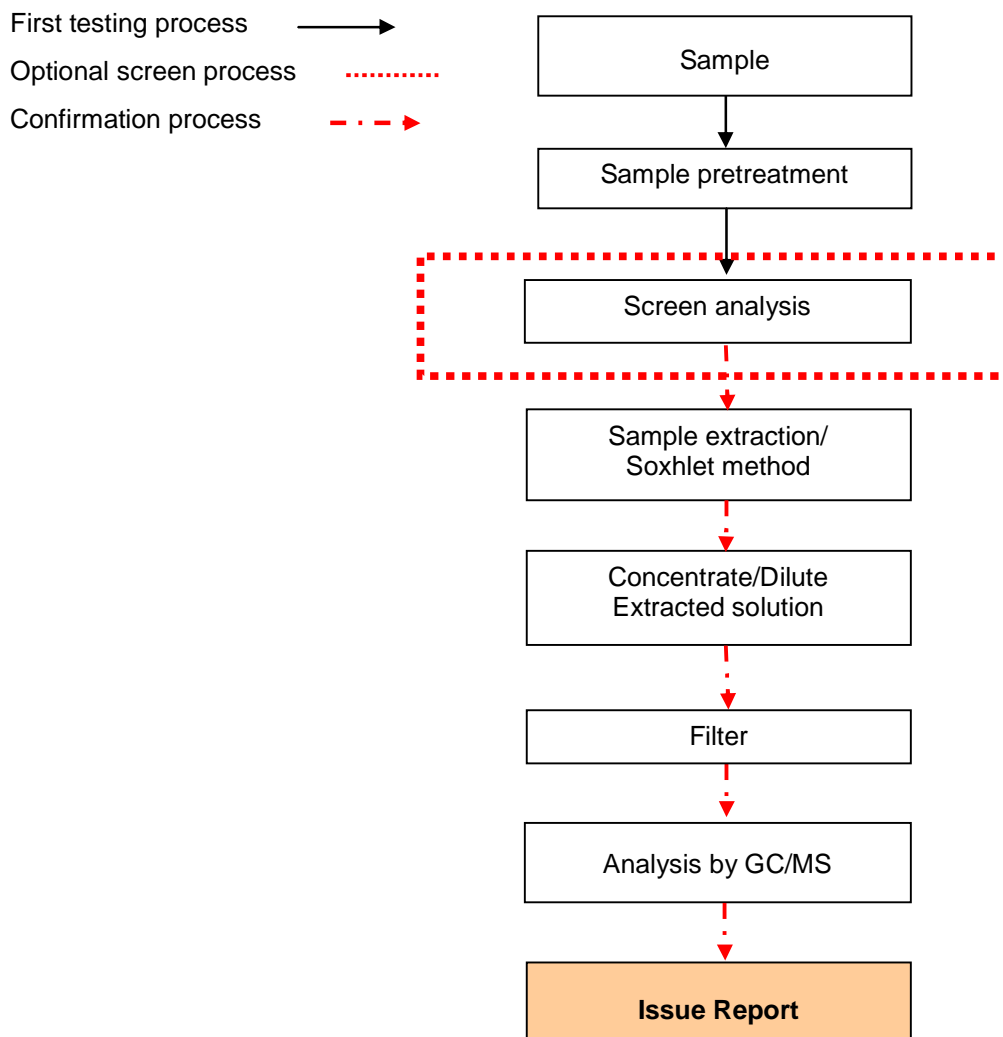
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PBB/PBDE analytical FLOW CHART

1) Name of the person who made measurement: Anson Tsao

2) Name of the person in charge of measurement: Ray Chang



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** End of Report **

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