[redacted]

The following sample was submitted and identified on behalf of the client as below:

| | | |
|---|---|---|
| SGS Job No. | : | VNHL2309023718EE |
| Sample Description | : | "MANG SHIELDING CHONG TINH DIEN/ ESD SHIELDING FILM" |
| Characteristic | : | SMPET/ LLDPE |
| Color | : | "XAM" |
| [redacted] | | |
| Country of Origin | : | VIET NAM |
| Country of Destination | : | VIET NAM |

The above sample(s) and information were provided by the client.

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| | | |
|---|---|---|
| Sample Receiving Date | : | SEPTEMBER 18, 2023 |
| Final Confirmed Date | : | SEPTEMBER 18, 2023 |
| Testing Period | : | SEPTEMBER 18, 2023 TO SEPTEMBER 22, 2023 |
| Test Requested | : | SELECTED TEST(S) AS REQUESTED BY THE CLIENT. |
| Test method(s) | : | PLEASE REFER TO NEXT PAGE(S). |
| Test results(s) | : | PLEASE REFER TO NEXT PAGE(S). |
| Result Summary | : | |

| Test Requested | Result (s) |
|---|---|
| **RoHS Directive 2011/65/EU Annex II [amended by Directive (EU) 2015/863]** (Cadmium, Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)) | Comply |

*Signed for and on behalf of*
**SGS Vietnam LTD**

Thay mặt công ty
SGS SGS Vietnam Ltd

**Ton Thien Thuy Hang**
Connectivity SBU Manager

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**Test results:**

**Sample Description:**

| Component No. | Description | Material | Color |
|---|---|---|---|
| 1 | GREY PLASTIC (MANG SHIELDING CHONG TINH DIEN/ ESD SHIELDING FILM) | PLASTIC | GREY |

**RoHS Directive 2011/65/EU Annex II [amended by Directive (EU) 2015/863]**

| Test Item(s): | Unit | Test Method | Results 1 | RL | Limit |
|---|---|---|---|---|---|
| Cadmium (Cd) | mg/kg | With reference to IEC 62321-5:2013 (Determination of Cd by ICP-OES) | ND | 2 | 100 |
| Lead (Pb) | mg/kg | With reference to IEC 62321-5:2013 (Determination of Pb by ICP-OES) | ND | 2 | 1000 |
| Mercury (Hg) | mg/kg | With reference to IEC 62321-4:2013 + A1:2017 (Determination of Hg by ICP-OES) | ND | 2 | 1000 |
| Hexavalent Chromium (CrVI) | mg/kg | With reference to IEC 62321-7-2:2017 (Determination of CrVI by UV-VIS) | ND | 8 | 1000 |
| **Sum of PBBs** | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBB by GC-MS) | ND | - | 1000 |
| Monobromobiphenyl | mg/kg | | ND | 5 | - |
| Dibromobiphenyl | mg/kg | | ND | 5 | - |
| Tribromobiphenyl | mg/kg | | ND | 5 | - |
| Tetrabromobiphenyl | mg/kg | | ND | 5 | - |
| Hexabromobiphenyl | mg/kg | | ND | 5 | - |
| Pentabromobiphenyl | mg/kg | | ND | 5 | - |
| Heptabromobiphenyl | mg/kg | | ND | 5 | - |
| Octabromobiphenyl | mg/kg | | ND | 5 | - |
| Nonabromobiphenyl | mg/kg | | ND | 5 | - |
| Decabromobiphenyl | mg/kg | | ND | 5 | - |
| **Sum of PBDEs** | mg/kg | With reference to IEC 62321-6:2015 (Determination of PBDE by GC-MS) | ND | - | 1000 |
| Monobromodiphenyl ether | mg/kg | | ND | 5 | - |
| Dibromodiphenyl ether | mg/kg | | ND | 5 | - |
| Tribromodiphenyl ether | mg/kg | | ND | 5 | - |
| Tetrabromodiphenyl ether | mg/kg | | ND | 5 | - |
| Pentabromodiphenyl ether | mg/kg | | ND | 5 | - |
| Hexabromodiphenyl ether | mg/kg | | ND | 5 | - |
| Heptabromodiphenyl ether | mg/kg | | ND | 5 | - |
| Octabromodiphenyl ether | mg/kg | | ND | 5 | - |
| Nonabromodiphenyl ether | mg/kg | | ND | 5 | - |
| Decabromodiphenyl ether | mg/kg | | ND | 5 | - |

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| Test Item(s): | Unit | Test Method | Results | RL | Limit |
|---|---|---|---|---|---|
| | | | 1 | | |
| Bis (2-ethylhexyl) phthalate (DEHP) | mg/kg | With reference to IEC 62321-8:2017 (Determination of DEHP by GC-MS) | ND | 50 | 1000 |
| Butyl benzyl phthalate (BBP) | mg/kg | With reference to IEC 62321-8:2017 (Determination of BBP by GC-MS) | ND | 50 | 1000 |
| Dibutyl phthalate (DBP) | mg/kg | With reference to IEC 62321-8:2017 (Determination of DBP by GC-MS) | ND | 50 | 1000 |
| Diisobutyl phthalate (DIBP) | mg/kg | With reference to IEC 62321-8:2017 (Determination of DIBP by GC-MS) | ND | 50 | 1000 |

Note:

1. mg/kg = ppm; 0.1wt% = 1000ppm
2. RL = Reporting Limit
3. ND = Not detected
4. - = not regulated

5. The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
6. IEC 62321 series is equivalent to EN 62321 series http://www.cenelec.eu/dyn/www/f?p=104:110:721668440899381::::FSP_PROJECT,FSP_LANG_ID:20662,25
7. The above test(s) was / were accredited ISO 17025:2017 by VILAS
   The above test(s) was / were performed by SGS VN's Chemical lab.

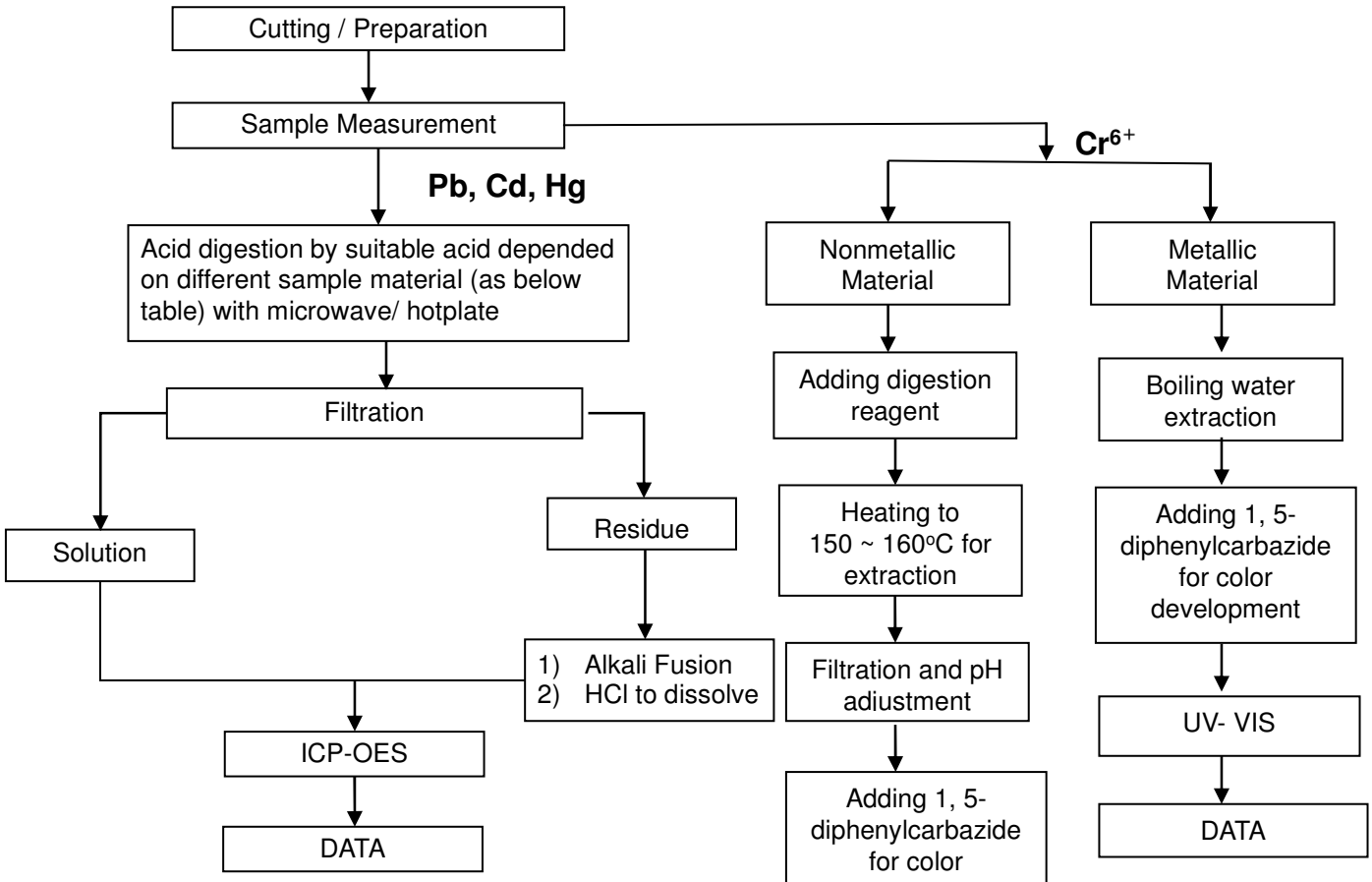
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## Flow Chart for RoHS: Pb/Cd/Hg/$Cr^{6+}$ Testing

These samples were dissolved totally by pre-conditioning method according to below flow chart. ($Cr^{6+}$ test method excluded)




| Sample Material | Digestion Acid |
|---|---|
| Steel, copper, aluminum, solder | Aqua regia, $HNO_3$, HCl, HF, $H_2O_2$ |
| Glass | $HNO_3$/HF |
| Gold, platinum, palladium, ceramic | Aqua regia |
| Silver | $HNO_3$ |
| Plastic | $H_2SO_4$, $H_2O_2$, $HNO_3$, HCl |
| Others | Any acid to total digestion |

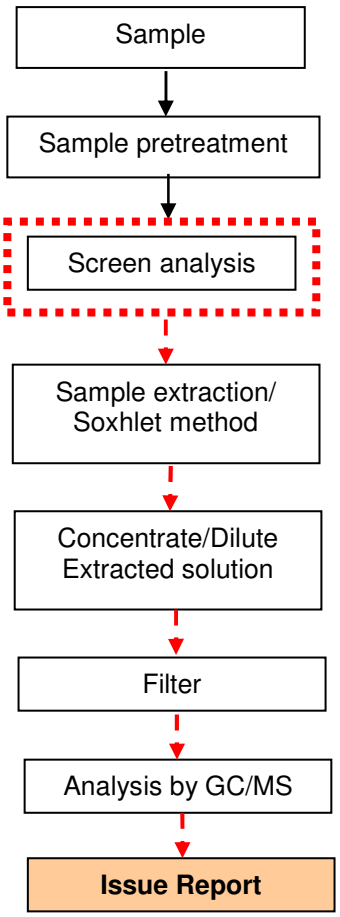
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## Flow chart of PBB/PBDE Testing

First testing process →
Optional screen process .....
Confirmation process – · ▶

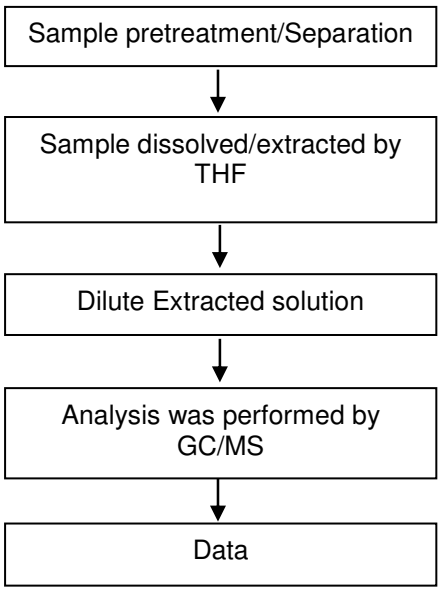



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## Flow chart of Phthalate Testing




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## PHOTO OF SUBMITTED SAMPLE FOR TESTING




*REPORT RESULTS REFER TO SUBMITTED SAMPLE (S) ONLY*

*****End of Report*****

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