

| <b>Prüfbericht - Nr.: 0114058887k6 001</b><br><i>Test Report No.:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                         |                                                             | <b>Seite 1 von 6</b><br><i>Page 1 of 6</i> |                                       |                                  |                                                                                                                                  |                                                                                         |                                  |                      |                                       |                                  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------|----------------------|---------------------------------------|----------------------------------|--|--|--|--|--|--|
| <b>Auftraggeber:</b> Chi Mei Corporation<br><i>Client:</i> 59-1, San Chia, Jen Te, Tainan City 71702, Taiwan, R.O.C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                         |                                                             |                                            |                                       |                                  |                                                                                                                                  |                                                                                         |                                  |                      |                                       |                                  |  |  |  |  |  |  |
| <b>Gegenstand der Prüfung:</b> STYRENE-BUTADIENE COPOLYMER<br><i>Test Item:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                         |                                                             |                                            |                                       |                                  |                                                                                                                                  |                                                                                         |                                  |                      |                                       |                                  |  |  |  |  |  |  |
| <b>Bezeichnung:</b> POLYREX® PH-888H<br><i>Identification:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                         |                                                             |                                            |                                       |                                  |                                                                                                                                  |                                                                                         |                                  |                      |                                       |                                  |  |  |  |  |  |  |
| <b>Anlieferungszustand:</b> apparent good<br><i>Delivery condition:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                         | <b>Eingangsdatum:</b> 2016-12-08<br><i>Date of Receipt:</i> |                                            |                                       |                                  |                                                                                                                                  |                                                                                         |                                  |                      |                                       |                                  |  |  |  |  |  |  |
| <b>Prüfart:</b> TÜV Rheinland (Shanghai) Co., Ltd.<br><i>Testing location:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                         |                                                             |                                            |                                       |                                  |                                                                                                                                  |                                                                                         |                                  |                      |                                       |                                  |  |  |  |  |  |  |
| <b>Prüfgrundlage:</b> According to RoHS (recast): Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU last amended by (EU) 2015/863: Total Content of Lead, Cadmium, Mercury, Chromium VI, Polybrominated Biphenyls, Polybrominated Diphenyl Ethers; and Benzylbutyl phthalate (BBP), Dibutyl phthalate (DBP), Bis(2-ethylhexyl) phthalate (DEHP), Diisobutyl phthalate (DIBP) and Halogen (Fluorine, Chlorine, Bromine, Iodine)<br><i>Test specification:</i>                                                                                  |                                                                                         |                                                             |                                            |                                       |                                  |                                                                                                                                  |                                                                                         |                                  |                      |                                       |                                  |  |  |  |  |  |  |
| <b>Prüfergebnis:</b> The test results are the measurements, stated in the test report.<br><i>Test result:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                         |                                                             |                                            |                                       |                                  |                                                                                                                                  |                                                                                         |                                  |                      |                                       |                                  |  |  |  |  |  |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <b>geprüft: tested by:</b><br/><br/> <br/><br/>           2017-01-03 Anne Chen<br/>                             /Coordinator         </div> <div style="width: 45%;"> <b>kontrolliert: checked by:</b><br/><br/> <br/><br/>           2017-01-03 Carl Chang<br/>                             /Department Manager         </div> </div> |                                                                                         |                                                             |                                            |                                       |                                  |                                                                                                                                  |                                                                                         |                                  |                      |                                       |                                  |  |  |  |  |  |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Datum<br/><i>Date</i></th> <th style="width: 30%;">Name/Stellung<br/><i>Name/Position</i></th> <th style="width: 30%;">Unterschrift<br/><i>Signature</i></th> <th style="width: 15%;">Datum<br/><i>Date</i></th> <th style="width: 30%;">Name/Stellung<br/><i>Name/Position</i></th> <th style="width: 30%;">Unterschrift<br/><i>Signature</i></th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>                     |                                                                                         |                                                             |                                            |                                       |                                  | Datum<br><i>Date</i>                                                                                                             | Name/Stellung<br><i>Name/Position</i>                                                   | Unterschrift<br><i>Signature</i> | Datum<br><i>Date</i> | Name/Stellung<br><i>Name/Position</i> | Unterschrift<br><i>Signature</i> |  |  |  |  |  |  |
| Datum<br><i>Date</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Name/Stellung<br><i>Name/Position</i>                                                   | Unterschrift<br><i>Signature</i>                            | Datum<br><i>Date</i>                       | Name/Stellung<br><i>Name/Position</i> | Unterschrift<br><i>Signature</i> |                                                                                                                                  |                                                                                         |                                  |                      |                                       |                                  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                         |                                                             |                                            |                                       |                                  |                                                                                                                                  |                                                                                         |                                  |                      |                                       |                                  |  |  |  |  |  |  |
| <b>Sonstiges/ Other Aspects:</b><br>Test period: 2016-12-08 – 2017-01-03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                         |                                                             |                                            |                                       |                                  |                                                                                                                                  |                                                                                         |                                  |                      |                                       |                                  |  |  |  |  |  |  |
| <table style="width: 100%;"> <tr> <td style="width: 50%;"> <b>Abkürzungen:</b> ok / P = entspricht Prüfgrundlage<br/>               fail / F = entspricht nicht Prüfgrundlage<br/>               n.a. / N = nicht anwendbar             </td> <td style="width: 50%;"> <b>Abbreviations:</b> ok / P = passed<br/>               fail / F = failed<br/>               n.a. / N = not applicable             </td> </tr> </table>                                                                                                                                                                       |                                                                                         |                                                             |                                            |                                       |                                  | <b>Abkürzungen:</b> ok / P = entspricht Prüfgrundlage<br>fail / F = entspricht nicht Prüfgrundlage<br>n.a. / N = nicht anwendbar | <b>Abbreviations:</b> ok / P = passed<br>fail / F = failed<br>n.a. / N = not applicable |                                  |                      |                                       |                                  |  |  |  |  |  |  |
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| <p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b></p> <p><i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i></p>                                                                                                        |                                                                                         |                                                             |                                            |                                       |                                  |                                                                                                                                  |                                                                                         |                                  |                      |                                       |                                  |  |  |  |  |  |  |

Test Report No. : 0114058887k6 001  
Customer : Chi Mei Corporation  
Test Method : Total Cadmium, Lead, Mercury, Chromium  
- Ref. to IEC 62321-4:2013 and IEC 62321-5:2013  
Chromium (VI)  
- For Metal material - Ref. to IEC 62321-7-1:2015  
- For Plastic or Electronic material – Ref. to IEC 62321:2008 Annex C  
- For Leather material - Ref. to ISO 17075:2007  
PBBs, PBDEs – Ref. to IEC 62321-6:2015

2017-01-03

| Sample<br>Material<br>Lab.-No.                       |       | LoD | POLYREX® PH-888H<br>plastic/white<br>TCL161208-106 |
|------------------------------------------------------|-------|-----|----------------------------------------------------|
| Cadmium (Cd)                                         | mg/kg | 2   | n.d.                                               |
| Lead (Pb)                                            | mg/kg | 2   | n.d.                                               |
| Mercury (Hg)                                         | mg/kg | 2   | n.d.                                               |
| Chromium VI (Cr VI)                                  | mg/kg | 2   | n.d.                                               |
| <b>Sum of Polybrominated biphenyls (PBBs)</b>        | mg/kg | -   | 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 Polybrominated diphenyl ethers (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.                                               |

Notes:

- n.d. - not detected
- n.a. - not applicable
- LoD - Limit of Detection
- mg/kg is equal to ppm (parts per million)

|                                                             | Cd  | Cr(VI) | Pb   | Hg   | PBBs | PBDEs |
|-------------------------------------------------------------|-----|--------|------|------|------|-------|
| <b>Maximum permissible Limit acc. to 2011/65/EU (mg/kg)</b> | 100 | 1000   | 1000 | 1000 | 1000 | 1000  |



Test Report No. : 0114058887k6 001 2017-01-03  
 Customer : Chi Mei Corporation  
 Test Method : BBP/DBP/DEHP/DIBP - Organic solvent extraction, analyzed by GCMS (Ref. to DIN EN 62321-8:2014/ IEC 62321-8 (111/321/CD))  
 Halogen - Following EN 14582; determination by I.C.

|                                    |     |                  |
|------------------------------------|-----|------------------|
| Sample                             | LoD | POLYREX® PH-888H |
| Material                           |     | plastic/white    |
| Lab.-No.                           |     | TCL161208-106    |
| Diethylhexylphthalate (DEHP) mg/kg | 50  | n.d.             |
| Dibutylphthalate (DBP) mg/kg       | 50  | n.d.             |
| Benzylbutylphthalate (BBP) mg/kg   | 50  | n.d.             |
| Diisobutylphthalate (DIBP) mg/kg   | 50  | n.d.             |

|                                                                | BBP  | DBP  | DEHP | DIBP |
|----------------------------------------------------------------|------|------|------|------|
| <b>Maximum permissible Limit acc. to (EU) 2015/863 (mg/kg)</b> | 1000 | 1000 | 1000 | 1000 |

| Sample         | POLYREX® PH-888H |     |        |
|----------------|------------------|-----|--------|
| Material/color | plastic/white    |     |        |
| Lab.-No.       | TCL161208-106    |     |        |
| Halogen        | Unit             | LoD | Result |
| Fluorine (F)   | mg/kg            | 50  | n.d.   |
| Chlorine (Cl)  | mg/kg            | 50  | n.d.   |
| Bromine (Br)   | mg/kg            | 50  | n.d.   |
| Iodine (I)     | mg/kg            | 50  | n.d.   |

**Notes:**

- n.d. - not detected
- n.a. - not applicable
- LoD - Limit of Detection
- mg/kg is equal to ppm (parts per million)

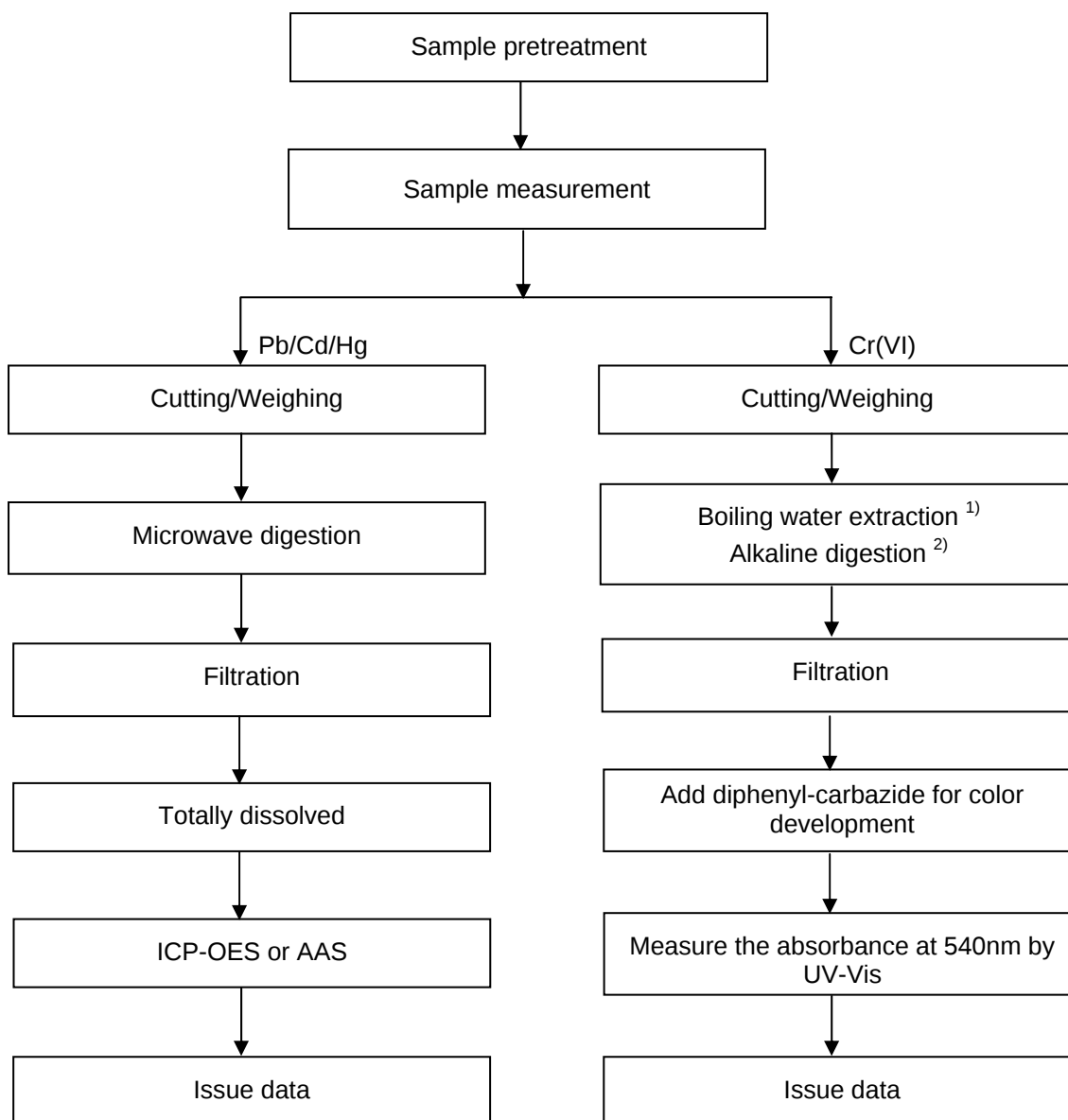
**Test Sample**


Test Report No. : 0114058887k6 001  
Customer : Chi Mei Corporation

2017-01-03

**Testing procedure:**

RoHS (Pb, Cd, Hg, Cr(VI))



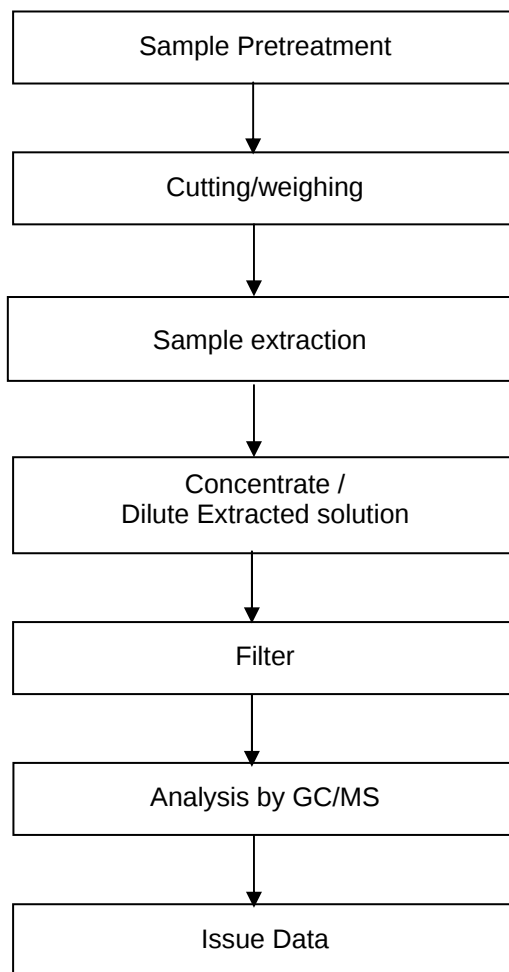
Notes: <sup>1)</sup> For metallic material  
<sup>2)</sup> For non-metallic material

Test Report No. : 0114058887k6 001  
Customer : Chi Mei Corporation

2017-01-03

**Testing procedure:**

RoHS (PBBs/PBDEs), DEHP/DBP/BBP/DIBP

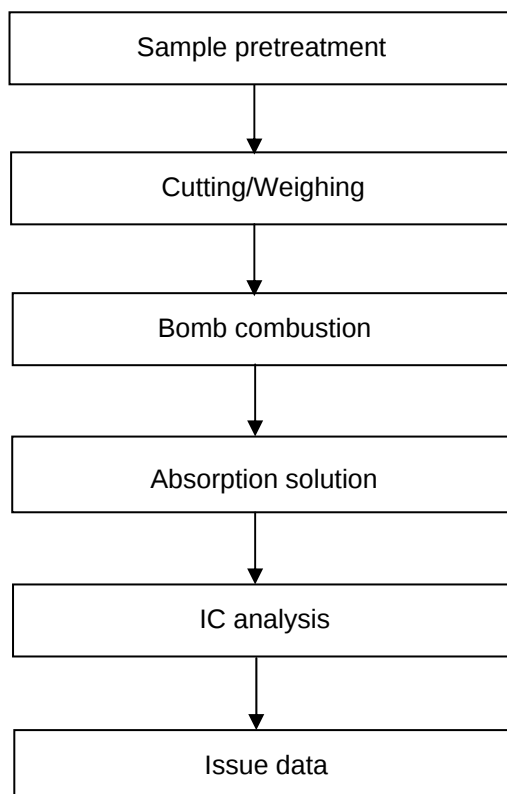


Test Report No. : 0114058887k6 001  
Customer : Chi Mei Corporation

2017-01-03

**Testing procedure:**

Halogen



--- End of Test-Report ---

