

## Test Report

No. : KA/2008/C1980

Date : 2009/01/06

Page : 1 of 6

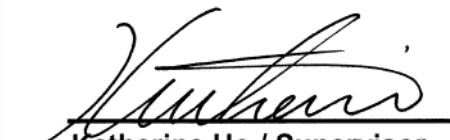
CHI MEI CORPORATION  
59-1 SAN CHIA, JEN TE TAINAN COUNTY, TAIWAN



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

Sample Description : ACRYLONITRILE-STYRENE COPOLYMER  
Style/Item No. : KIBISAN® PN-117 L200  
Sample Receiving Date : 2008/12/22  
Testing Period : 2008/12/22 TO 2009/01/06

=====  
**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 for non-metallic samples by UV/Vis Spectrometry.  
(5) Determination of PBB and PBDE by GC/MS.  
**Test Result(s)** : Please refer to next page(s).  
**Conclusion** : Based on the performed tests on submitted samples, the test results are **compliant with** the limits of RoHS Directive 2002/95/EC and its subsequent amendments.

  
Katherine Ho / Supervisor  
Signed for and on behalf of  
SGS Taiwan Limited

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部份複製。

This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



# Test Report

No. : KA/2008/C1980

Date : 2009/01/06

Page : 2 of 6

CHI MEI CORPORATION  
59-1 SAN CHIA, JEN TE TAINAN COUNTY, TAIWAN



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

| Test Item (s):                                    | Method<br>(Refer to) | Result | MDL | RoHS<br>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          |
| <b>Sum of PBBs</b>                                | (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   | -             |
| <b>Sum of PBDEs</b>                               |                      | 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 : BLUE ACRYLONITRILE-STYRENE COPOLYMER

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部份複製。

This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



# Test Report

No. : KA/2008/C1980

Date : 2009/01/06

Page : 3 of 6

CHI MEI CORPORATION  
59-1 SAN CHIA, JEN TE TAINAN COUNTY, TAIWAN



- Note :
1. mg/kg = ppm ; 0.1wt% = 1000ppm
  2. n.d. = Not Detected
  3. MDL = Method Detection Limit
  - 4 The exemption of DecaBDE in polymeric application according 2005/717/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE will be included in the sum of PBDE after 01.07.2008
  5. "-" = Not Regulated

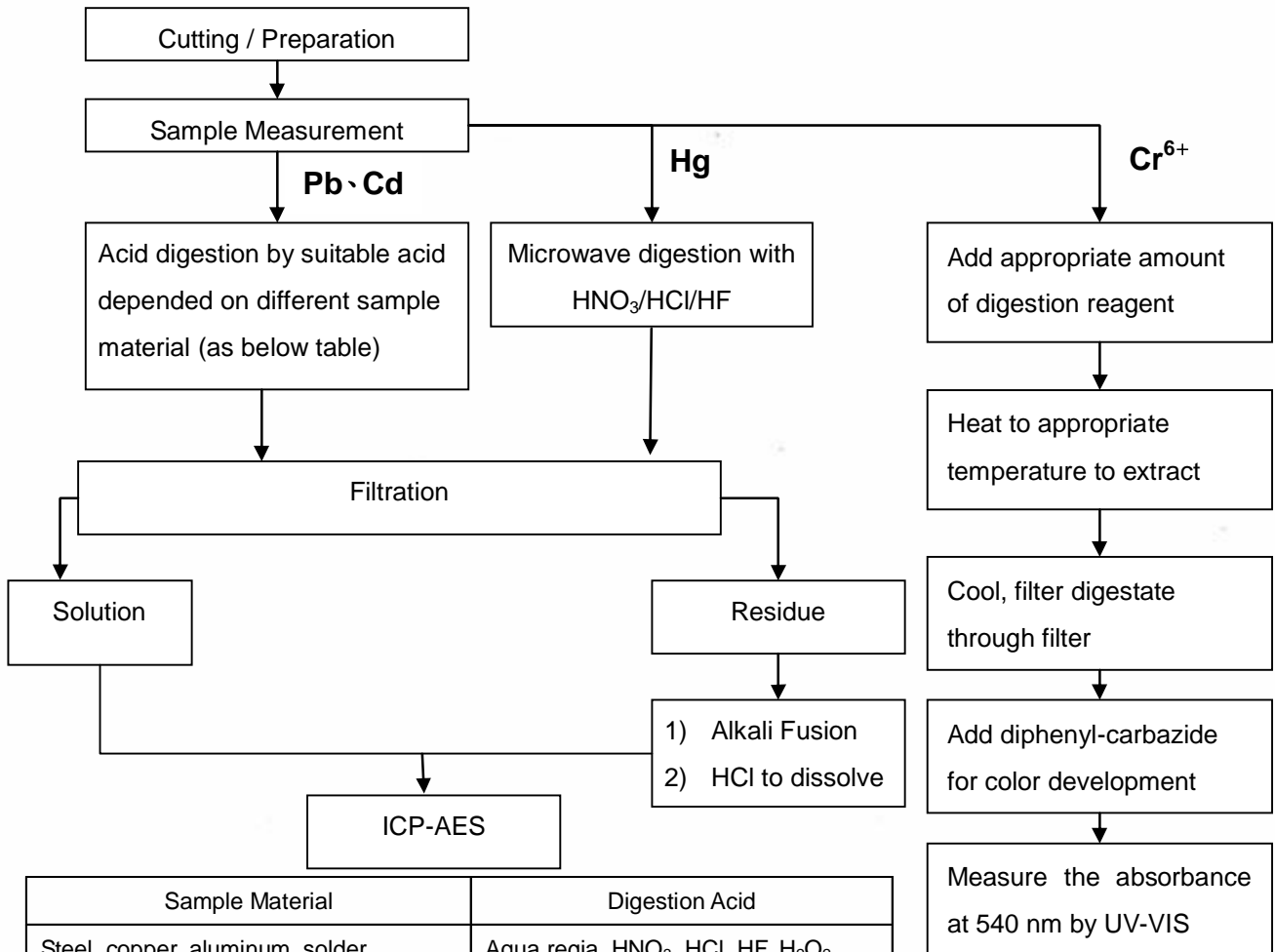
Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部份複製。

This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

CHI MEI CORPORATION  
59-1 SAN CHIA, JEN TE TAINAN COUNTY, TAIWAN



- 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: Hungming Li
- 3) Name of the person in charge of measurement: Ray Chang



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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部份複製。

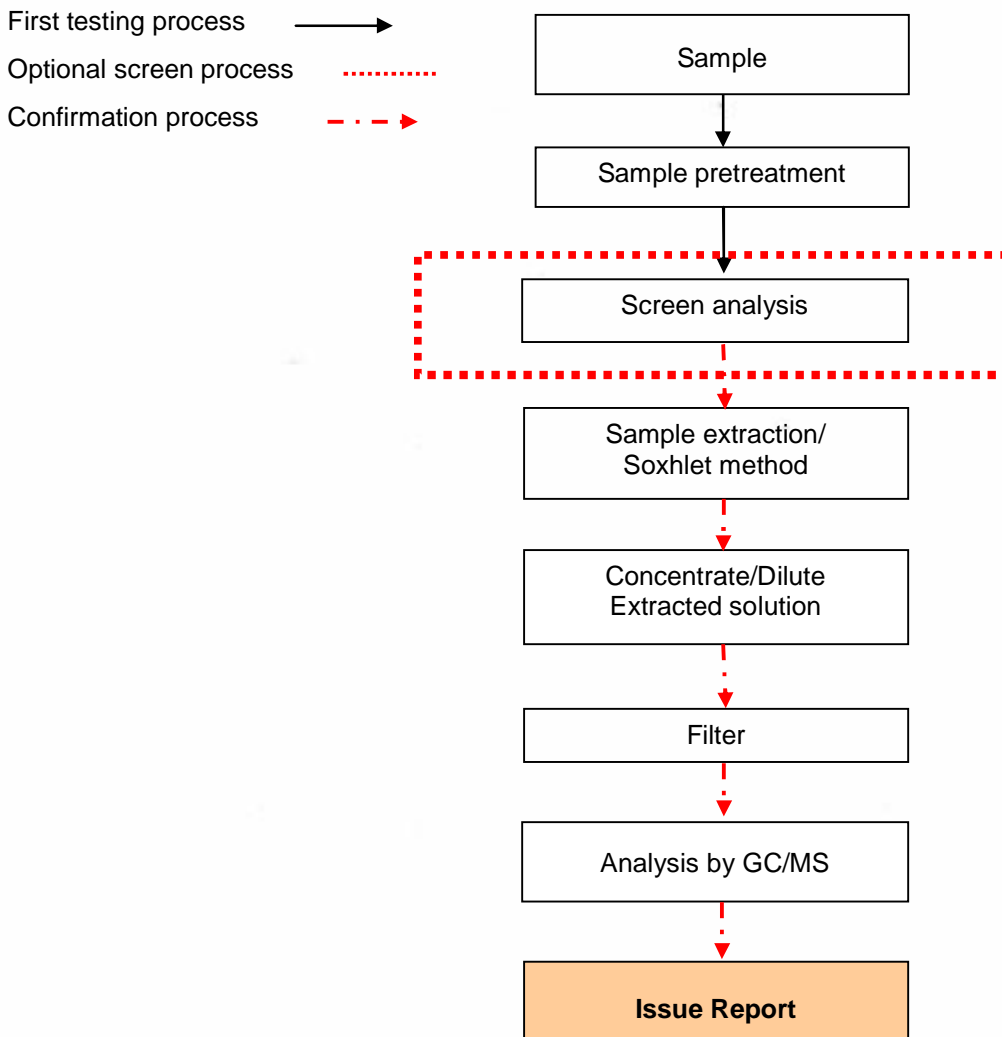
This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



## 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



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部份複製。

This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

## Test Report

No. : KA/2008/C1980

Date : 2009/01/06

Page : 6 of 6

CHI MEI CORPORATION

59-1 SAN CHIA, JEN TE TAINAN COUNTY, TAIWAN



\*\* End of Report \*\*

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部份複製。

This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.