TÜVRheinland®

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|---|---|---|
| **Prüfbericht - Nr.:** *Test Report No.:* | **238113368i7 002** | **Seite 1 von 5** *Page 1 of 5* |
| **Auftraggeber:** *Client:* | Chi Mei Corporation<br>No.59-1, Sanjiazi, Rende Dist., Tainan City 71702, Taiwan, R.O.C. | |
| **Gegenstand der Prüfung:** *Test Item:* | ACRYLONITRILE-STYRENE COPOLYMER | |
| **Bezeichnung:** *Identification:* | KIBISAN® PN-127 L150 | |
| **Anlieferungszustand:** *Delivery condition:* | apparent good | **Eingangsdatum:** *Date of Receipt:* 2019-12-09 |
| **Prüfort:** *Testing location:* | TÜV Rheinland (Shanghai) Co. Ltd. | |
| **Prüfgrundlage:** *Test specification:* | According to RoHS (recast): Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU Annex II and its amendment Directive (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) | |
| **Prüfergebnis:** *Test result:* | According to the kind and extend of tests performed the above mentioned test item passed the test specification. | |

**geprüft:** *tested by:*

Fanny Lin

| **Datum** *Date* | **Name/Stellung** *Name/Position* | **Unterschrift** *Signature* |
|---|---|---|
| 2020-01-13 | Fanny Lin /Project Coordinator | |

**kontrolliert:** *checked by:*

Anya Wang

| **Datum** *Date* | **Name/Stellung** *Name/Position* | **Unterschrift** *Signature* |
|---|---|---|
| 2020-01-13 | Anya Wang /Project Coordinator | |

**Sonstiges/** *Other Aspects:*

Test period: 2019-12-09 – 2020-01-02
Refers to TÜV test report no.: 238113368i5 001.
This test report supersedes test report no. 238113368i7 001.

| *Abkürzungen:* | | | | *Abbreviations:* | | | |
|---|---|---|---|---|---|---|---|
| | *ok / P* | = | *entspricht Prüfgrundlage* | | *ok / P* | = | *passed* |
| | *fail / F* | = | *entspricht nicht Prüfgrundlage* | | *fail / F* | = | *failed* |
| | *n.a. / N* | = | *nicht anwendbar* | | *n.a. / N* | = | *not applicable* |

**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.**

*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.*

Test Report No. : 238113368i7 002 2020-01-13
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 62321-7-2:2017
- For Leather material - Ref. to EN ISO 17075-1:2017
PBBs, PBDEs - Ref. to IEC 62321-6:2015

| Sample<br>Material<br>Lab.-No. | | LoD | KIBISAN® PN-127 L150<br>plastic/transparent<br>TCL191209-76 |
|---|---|---|---|
| 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 | 8 | n.d. |
| **Sum of Polybrominated biphenyls (PBBs)** | 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. |
| **Sum of Polybrominated diphenyl ethers (PBDEs)** | 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
- LoD - Limit of Detection
- mg/kg is equal to ppm (parts per million)
- *Once the total Cr content in metal/ plastic or electronic sample is found to be exceeded the limit, the Cr (VI) content will be confirmed with reference to IEC 62321-7-1:2015/ IEC 62321-7-2:2017

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

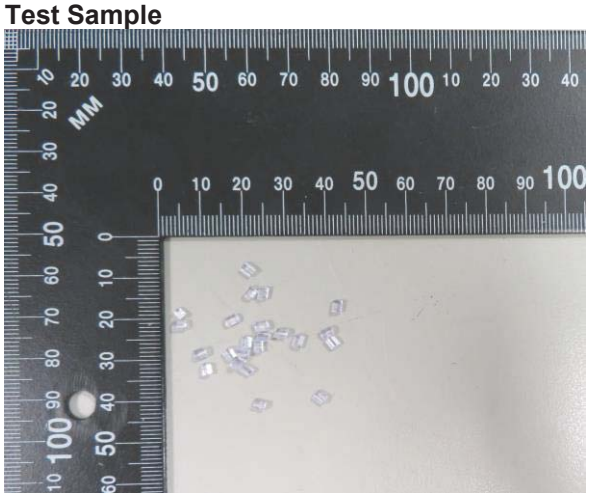
Test Report No. : 238113368i7 002 2020-01-13
Customer : Chi Mei Corporation
Test Method : BBP/DBP/DEHP/DIBP - Ref. to IEC 62321-8:2017

| Sample<br>Material<br>Lab.-No. | | LoD | KIBISAN® PN-127 L150<br>plastic/transparent<br>TCL191209-76 |
|---|---|---|---|
| Benzylbutylphthalate (BBP) | mg/kg | 50 | n.d. |
| Dibutylphthalate (DBP) | mg/kg | 50 | n.d. |
| Diethylhexylphthalate (DEHP) | mg/kg | 50 | n.d. |
| Diisobutylphthalate (DIBP) | mg/kg | 50 | n.d. |

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

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

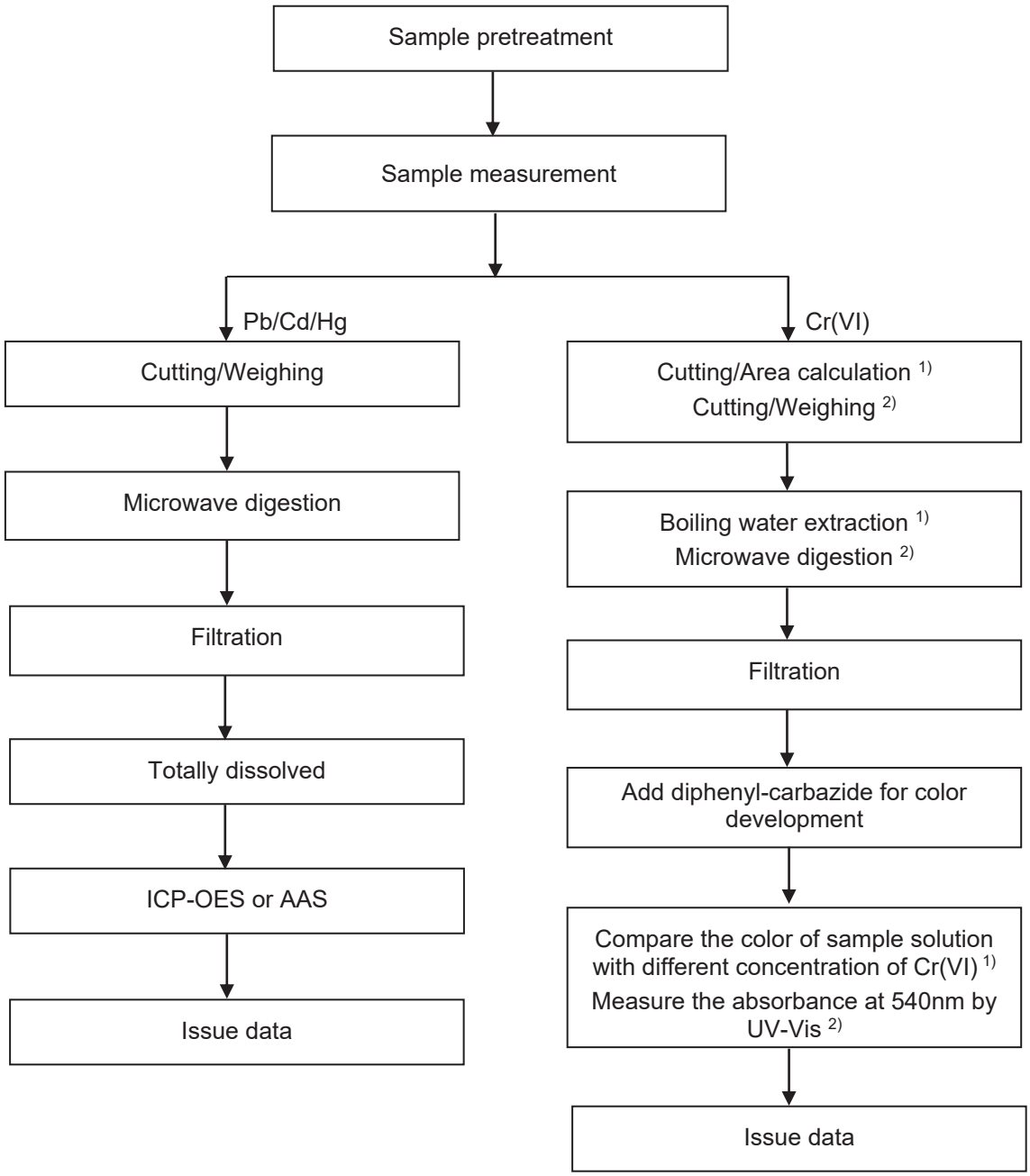
**Test Sample**



Test Report No. : 238113368i7 002 2020-01-13
Customer : Chi Mei Corporation

**Testing procedure:**

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

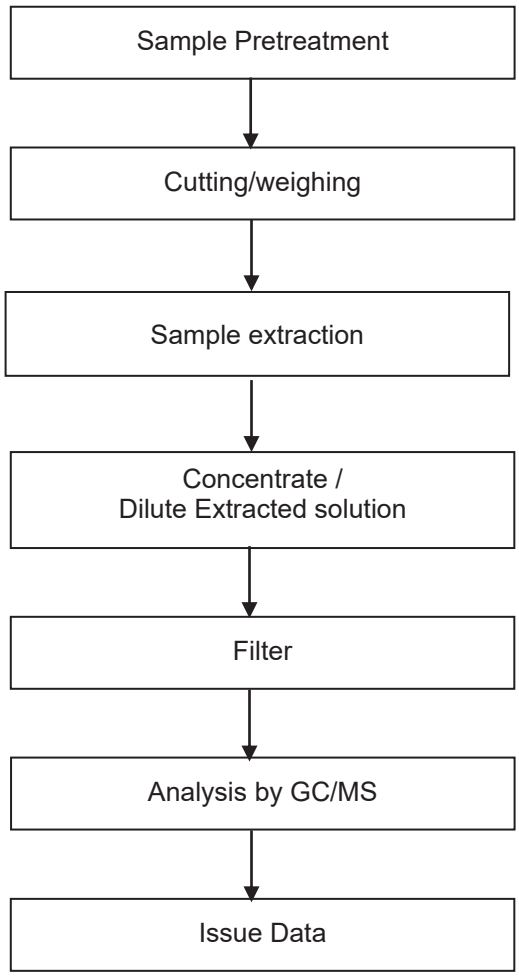



Notes: 1) For metallic material
2) For non-metallic material

Test Report No. : 238113368i7 002 2020-01-13
Customer : Chi Mei Corporation

**Testing procedure:**

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




--- End of Test-Report ---