

<b>Prüfbericht - Nr.: 238113368I9 001</b> <i>Test Report No.:</i>			<b>Seite 1 von 6</b> <i>Page 1 of 6</i>																				
<b>Auftraggeber:</b> Chi Mei Corporation <i>Client:</i> No.59-1, Sanjiazi, Rende Dist., Tainan City 71702, Taiwan, R.O.C.																							
<b>Gegenstand der Prüfung:</b> POLYCARBONATE <i>Test Item:</i>																							
<b>Bezeichnung:</b> WONDERLITE® PC-110 <i>Identification:</i>																							
<b>Anlieferungszustand:</b> apparent good <i>Delivery condition:</i>		<b>Eingangsdatum:</b> 2019-12-09 <i>Date of Receipt:</i>																					
<b>Prüfart:</b> TÜV Rheinland (Shanghai) Co. Ltd. <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 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) and Halogen (Fluorine, Chlorine, Bromine, Iodine) <i>Test specification:</i>																							
<b>Prüfergebnis:</b> The test results are the measurements, stated in the test report. <i>Test result:</i>																							
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <b>geprüft: tested by:</b>   <div style="text-align: center; font-family: cursive; font-size: 1.2em; margin-bottom: 10px;">Fanny Lin</div> <div style="display: flex; justify-content: center; gap: 20px;"> <div style="text-align: center;">           2020-01-02 Fanny Lin            /Project Coordinator         </div> <div style="text-align: center;">           2020-01-02 Anya Wang            /Project Coordinator         </div> </div> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Datum</th> <th style="width: 35%;">Name/Stellung</th> <th style="width: 20%;">Unterschrift</th> </tr> <tr> <th><i>Date</i></th> <th><i>Name/Position</i></th> <th><i>Signature</i></th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> </div> <div style="width: 45%;"> <b>kontrolliert: checked by:</b>   <div style="text-align: center; font-family: cursive; font-size: 1.2em; margin-bottom: 10px;">Anya Wang</div> <div style="display: flex; justify-content: center; gap: 20px;"> <div style="text-align: center;">           2020-01-02 Anya Wang            /Project Coordinator         </div> <div style="text-align: center;">           2020-01-02 Anya Wang            /Project Coordinator         </div> </div> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Datum</th> <th style="width: 35%;">Name/Stellung</th> <th style="width: 20%;">Unterschrift</th> </tr> <tr> <th><i>Date</i></th> <th><i>Name/Position</i></th> <th><i>Signature</i></th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> </div> </div>						Datum	Name/Stellung	Unterschrift	<i>Date</i>	<i>Name/Position</i>	<i>Signature</i>				Datum	Name/Stellung	Unterschrift	<i>Date</i>	<i>Name/Position</i>	<i>Signature</i>			
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<b>Sonstiges/ Other Aspects:</b> Test period: 2019-12-09 – 2020-01-02																							
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <b>Abkürzungen:</b> ok / P = entspricht Prüfgrundlage            fail / F = entspricht nicht Prüfgrundlage            n.a. / N = nicht anwendbar         </div> <div style="width: 45%;"> <b>Abbreviations:</b> ok / P = passed            fail / F = failed            n.a. / N = not applicable         </div> </div>																							
<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. : 238113368I9 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 62321-7-2:2017  
- For Leather material - Ref. to EN ISO 17075-1:2017  
PBBs, PBDEs - Ref. to IEC 62321-6:2015

2020-01-02

Sample Material Lab.-No.		LoD	WONDERLITE® PC-110 plastic/transparent TCL191209-106
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	8	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
- 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
<b>Maximum permissible Limit acc. to 2011/65/EU (mg/kg)</b>	100	1000	1000	1000	1000	1000

Test Report No. : 23811336819 001  
Customer : Chi Mei Corporation  
Test Method : BBP/DBP/DEHP/DIBP - Ref. to IEC 62321-8:2017  
Halogen - Following EN 14582; determination by I.C.

2020-01-02

Sample Material Lab.-No.	LoD	WONDERLITE® PC-110 plastic/transparent TCL191209-106
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.

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

Sample Material Lab.-No.		LoD	WONDERLITE® PC-110 plastic/transparent TCL191209-106
<b>Halogen</b>	<b>Unit</b>	<b>LoD</b>	<b>Result</b>
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**

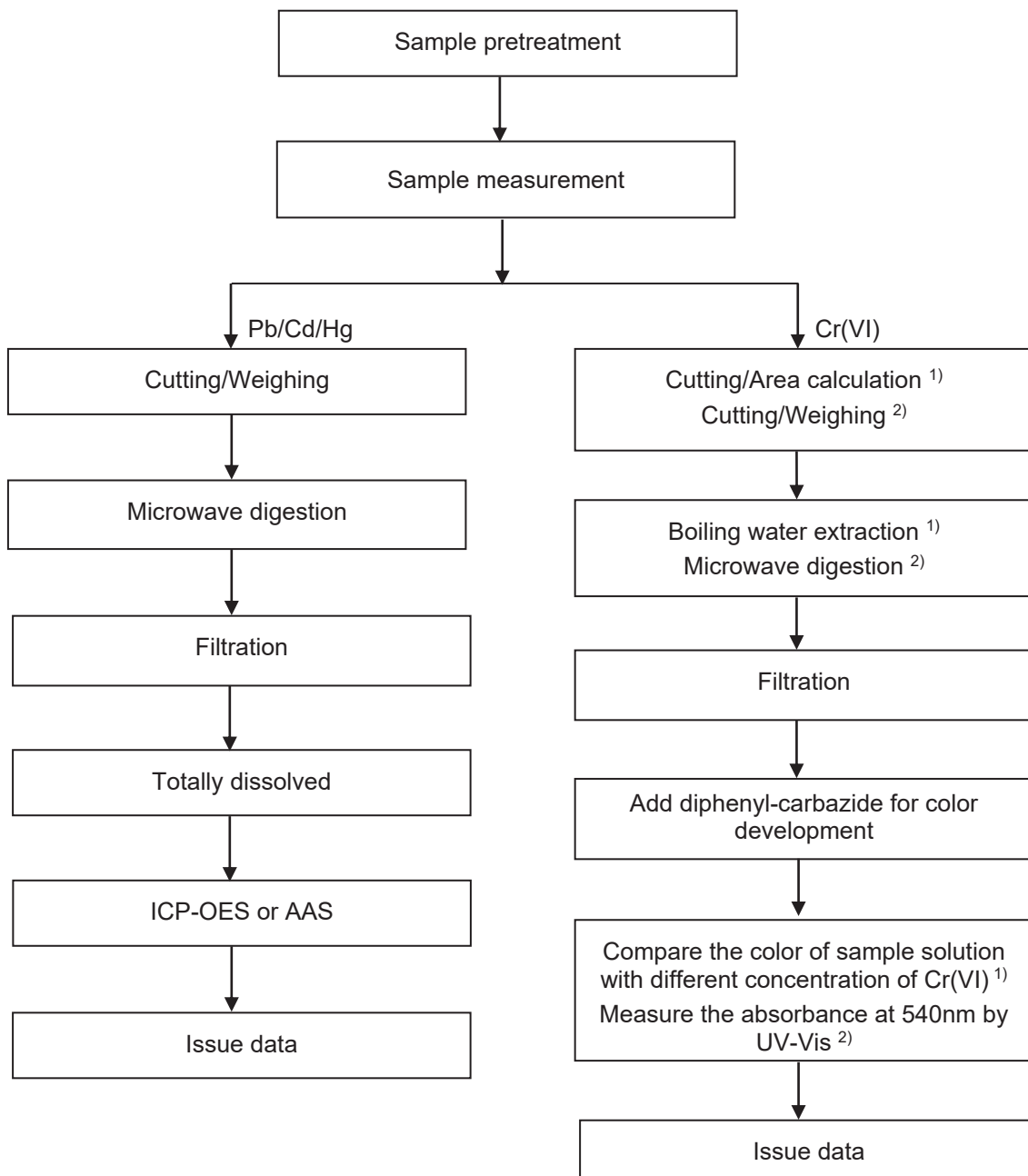


Test Report No. : 23811336819 001  
Customer : Chi Mei Corporation

2020-01-02

**Testing procedure:**

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



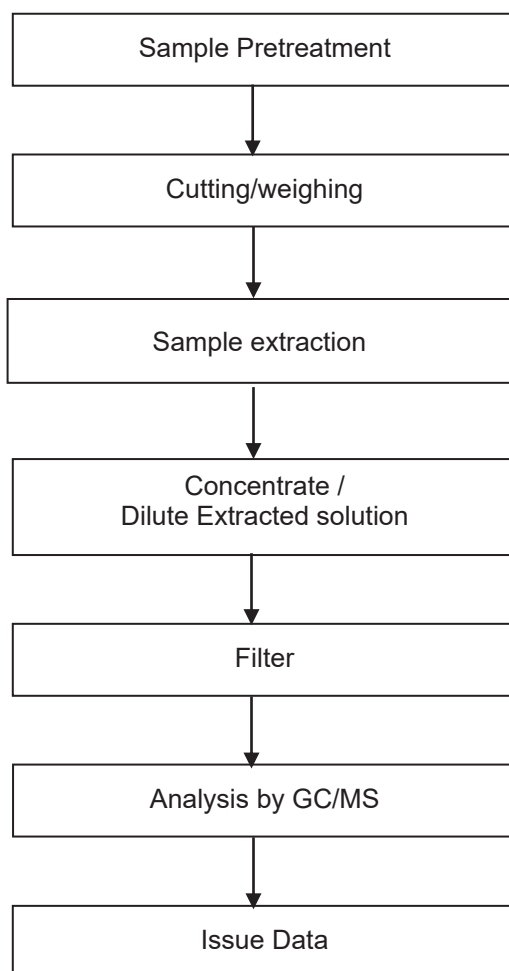
Notes: <sup>1)</sup> For metallic material  
<sup>2)</sup> For non-metallic material

Test Report No. : 238113368I9 001  
Customer : Chi Mei Corporation

2020-01-02

**Testing procedure:**

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

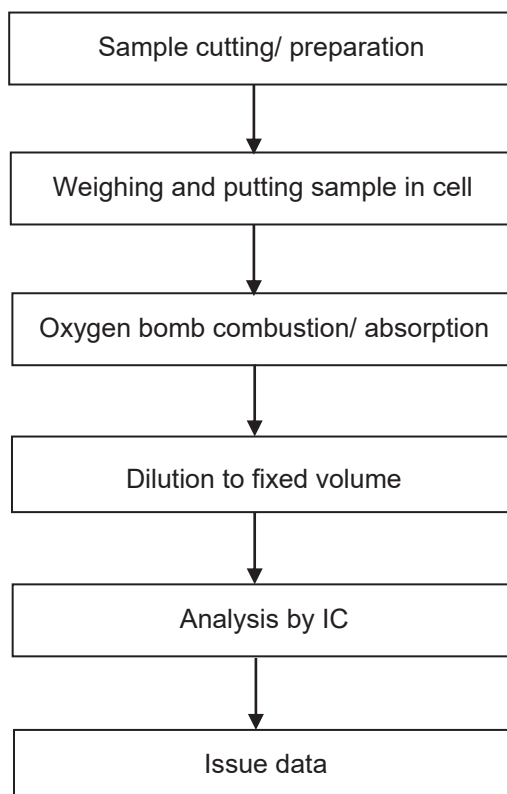


Test Report No. : 23811336819 001  
Customer : Chi Mei Corporation

2020-01-02

**Testing procedure:**

Halogen



--- End of Test-Report ---