

Report No.: 48226822m5 001

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Client: CHIMEI Corporation
No.398, Sec. 1, Zhongzheng Rd., Rende Dist., Tainan City 717010, Taiwan,
R.O.C.

Test item(s): Plastic

Identification/Model No(s): POLYCARBONATE /
WONDERLITE® PC-110U

Sample obtaining method: Sending by customer

Condition at delivery: Test item complete and undamaged.

Sample receiving date: 2023-12-04

Testing period: 2023-12-04 – 2024-01-02

Place of testing: TÜV Rheinland (Shanghai) Co. Ltd.

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)

Halogen (Fluorine, Chlorine, Bromine, Iodine)

Test result:

Pass

Refer to result page

Other Information: Refers to TÜV test report no. 48226822m3 001

For and on behalf of
TÜV Rheinland Taiwan Ltd.

Arthur Cheng

2024-01-02
Date

Arthur Cheng/Project Manager
Name/Position



Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed. This test report relates to the above mentioned 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. "Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report..

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Material List:

Item: WONDERLITE® PC-110U

Mat. No.	Material	Color	Lab no.
1	Plastic	Transparent	TCL231204-96

Test sample

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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 Polymer, Electronic material or others materials - Ref. to IEC 62321-7-2:2017
 PBBs, PBDEs - Ref. to IEC 62321-6:2015

Material No.

1

Parameter	Unit	RL	Result
Cadmium (Cd)	mg/kg	2	< RL
Lead (Pb)	mg/kg	2	< RL
Mercury (Hg)	mg/kg	2	< RL
Chromium VI (Cr VI)*	mg/kg	8	< RL
Sum of Polybrominated biphenyls (PBBs)	mg/kg	-	< RL
Monobromobiphenyl	mg/kg	5	< RL
Dibromobiphenyl	mg/kg	5	< RL
Tribromobiphenyl	mg/kg	5	< RL
Tetrabromobiphenyl	mg/kg	5	< RL
Pentabromobiphenyl	mg/kg	5	< RL
Hexabromobiphenyl	mg/kg	5	< RL
Heptabromobiphenyl	mg/kg	5	< RL
Octabromobiphenyl	mg/kg	5	< RL
Nonabromobiphenyl	mg/kg	5	< RL
Decabromobiphenyl	mg/kg	5	< RL
Sum of Polybrominated diphenyl ethers (PBDEs)	mg/kg	-	< RL
Monobromodiphenyl ether	mg/kg	5	< RL
Dibromodiphenyl ether	mg/kg	5	< RL
Tribromodiphenyl ether	mg/kg	5	< RL
Tetrabromodiphenyl ether	mg/kg	5	< RL
Pentabromodiphenyl ether	mg/kg	5	< RL
Hexabromodiphenyl ether	mg/kg	5	< RL
Heptabromodiphenyl ether	mg/kg	5	< RL
Octabromodiphenyl ether	mg/kg	5	< RL
Nonabromodiphenyl ether	mg/kg	5	< RL
Decabromodiphenyl ether	mg/kg	5	< RL

Notes:

- < = less than
- RL = Reporting Limit
- n.a. = not applicable
- mg/kg = milligram per kilogram
- * 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

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Test Method : BBP/DBP/DEHP/DIBP - Ref. to IEC 62321-8:2017

Material No.

1

Parameter	Unit	RL	Result
Benzylbutylphthalate (BBP)	mg/kg	50	< RL
Dibutylphthalate (DBP)	mg/kg	50	< RL
Diethylhexylphthalate (DEHP)	mg/kg	50	< RL
Diisobutylphthalate (DIBP)	mg/kg	50	< RL

Notes:

- < = less than
- RL = Reporting Limit
- n.a. = not applicable
- mg/kg = milligram per kilogram

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

Test Method : Halogen - Following EN 14582; determination by I.C.

Material No.

1

Halogen	Unit	RL	Result
Fluorine (F)	mg/kg	50	< RL
Chlorine (Cl)	mg/kg	50	< RL
Bromine (Br)	mg/kg	50	< RL
Iodine (I)	mg/kg	50	< RL

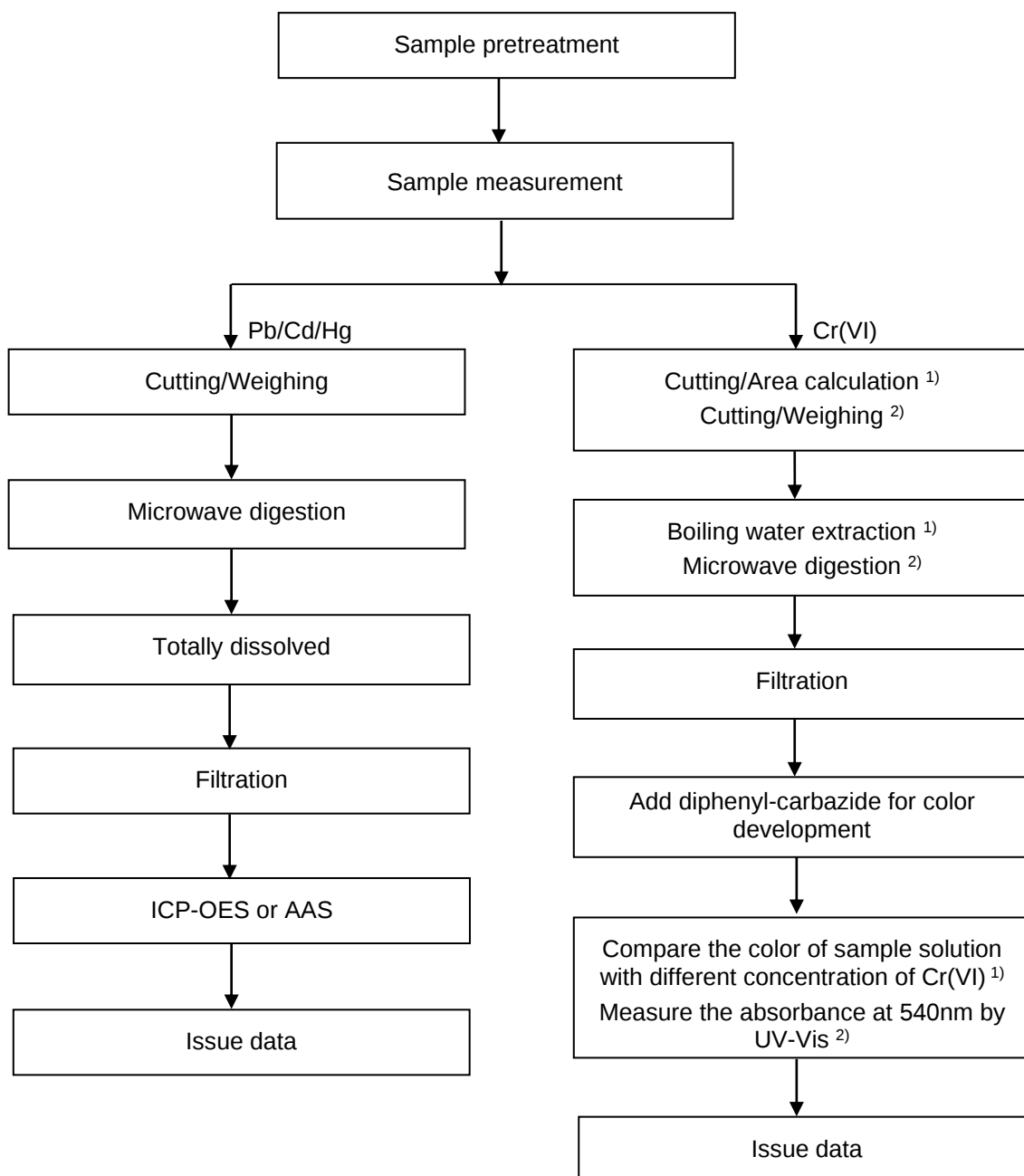
Abbreviation: < = less than

RL = Reporting Limit

mg/kg = milligram per kilogram

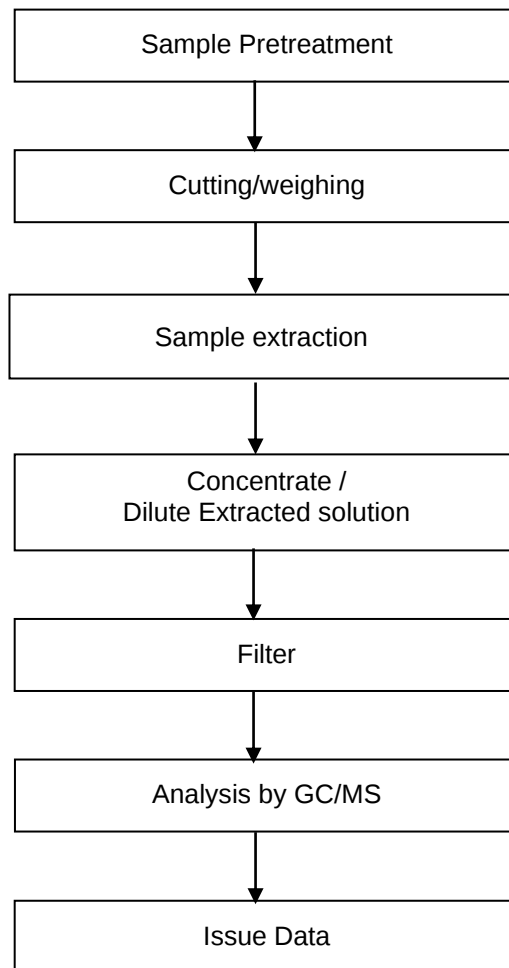
Testing procedure:

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

Notes: ¹⁾ For metallic material²⁾ For non-metallic material

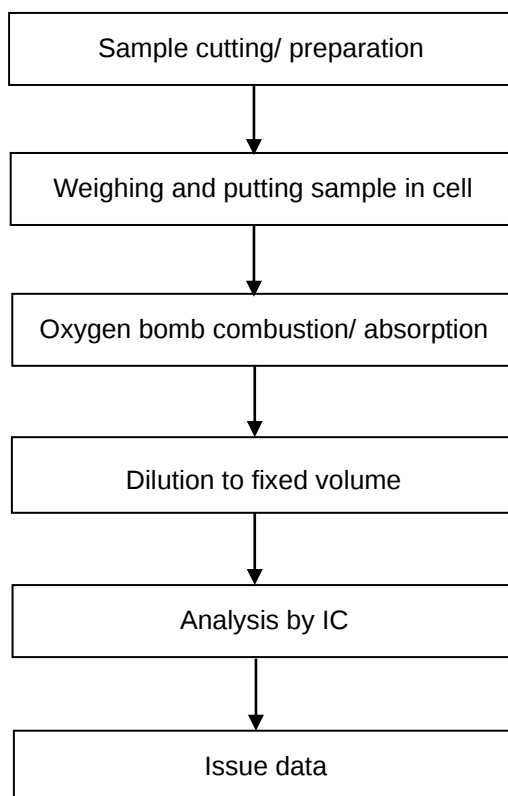
Testing procedure:

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



Testing procedure:

Halogen



--- End of Test-Report ---