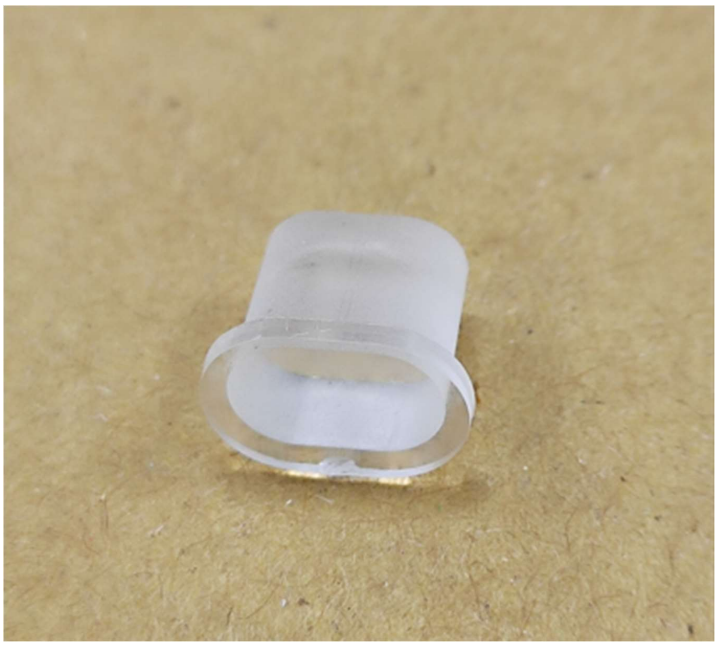
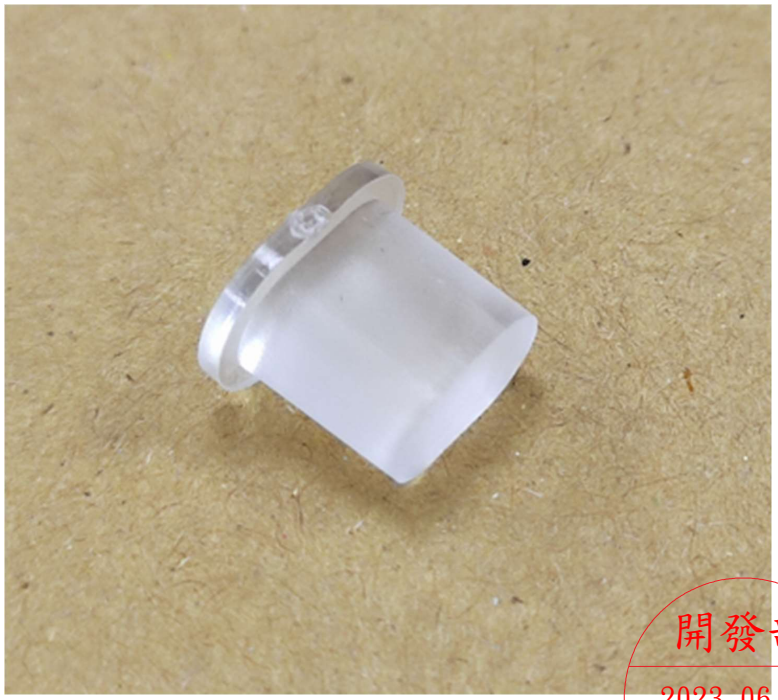






開發部
2023.06.19
發行
鈺鎂科技開發股份有限公司

展絃科技有限公司

242新北市新莊區新樹路310巷18-1號
電話：02-2206050　　傳真：02-22060671

模 具 產 品 承 認 書

客戶名稱	鈺緯科技開發股份有限公司
模　　號	JS-2112327
客戶料號	樣品名稱
3MD364PA020 (M3458)	LIGHT PIPE(10.1",GE LOTUS)

客 戶 確 認

工 程	品 保	採 購
開發部 2023.06.19 發行 鈺緯科技開發股份有限公司		

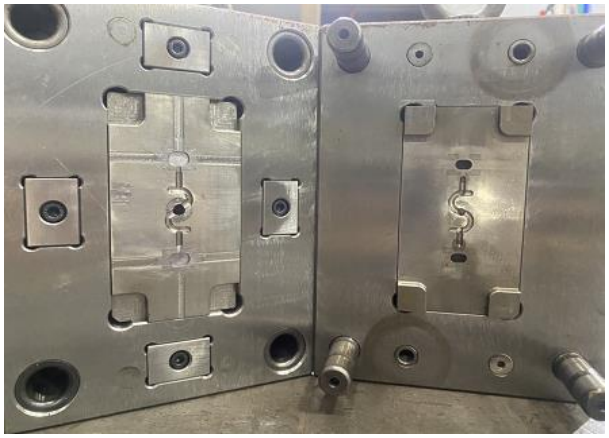
中華民國　112年　06 月　01　日

模 具 照 片

尺寸：150*200*220

重量：53KG

穴數：2





成 品 照 片

原料品牌： 奇美



料　　號： PC
110透明



Test Result	

DIVA FAI DATA SHEET

	Part Number :	3MD634PA020 (M3458)	Supplier :	展紘科技	Date:	2023/6/1
	Part Description :	LIGHT PIPE(10.1",GE LOTUS)			Cavity / Tool # :	2
	Revision :		Material Spec:	PC	Inspector:	陳文宣

MOI-Method of inspection abbreviation: HG = Height gauge, MIC = Micrometer, DC = Dial Caliper, P = Protractor, OC = Optical Comparator, CG = Checking Gauge, CMM = Coordinate Measuring Machine, OMM = Optical Coordinate Measuring Machine, HT = Hardness Trester, TG = Thickness Gauge, VIS = D

OTHER:

DRAWING SPECIFICATIONS						INSPECTION RESULTS							INSPECTION ANALYSIS					
						Sample Number							% Tolerance		Alert/Rej		Supplier	RD Engineering
ITEM	LOCATION	NOMINAL	+TOL	-TOL	Method	1	2	3	1	2	3	Mean	UPPER	LOWER	HIGH	LOW	Remarks	Disposition
1		**10.000**	0.10	0.10	OC	**9.980**	**9.980**	**9.970**	***-0.020***	***-0.020***	***-0.030***	***9.977***	**0%**	**30%**				
2		**8.000**	0.10	0.10	OC	**7.980**	**7.960**	**7.970**	***-0.020***	***-0.040***	***-0.030***	***7.970***	**0%**	**40%**				
3		**5.000**	0.10	0.10	OC	**4.940**	**4.940**	**4.940**	***-0.060***	***-0.060***	***-0.060***	***4.940***	**0%**	**60%**				
4		**7.000**	0.10	0.10	OC	**6.960**	**6.980**	**7.000**	***-0.040***	***-0.020***	***0.000***	***6.980***	**0%**	**40%**				
5		**8.000**	0.10	0.10	OC	**8.030**	**8.040**	**8.040**	***0.030***	***0.040***	***0.040***	***8.037***	**40%**	**0%**				
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		

Instructions:
1.Inspector mest fillout the yellow area.
2. The table will automatically calculate the data in green area.

NOTE:

1. INTERPRET DIMENSIONING AND TOLERANCING IN ACCORDANCE WITH ASME Y14.5-2009

2. MATERIAL : PC-Clear.
   FINISH : VDI 27 OR EQUVIVALENT.
   APPERANCE CLASS : S-01
   TEXTURE : 46-221380P1 (MT-1055-6)

3. NO REGRINDING MATERIAL ALLOWED.

4. THE PART SHALL BE CLEAR WITHOUT ANY COLOR SHADE.

5. ALL FLASH TO BE REMOVED TO FLUSH WITH SURFACE.

6. ALL CORNERS AND EDGES SHALL HAVE MINIMUM RADIUS OF 0.2mm.

7. OUTSIDE SURFACES TO BE FREE FROM SINK MARKS, EJECTOR PIN MARKS, CHILL WELD LINES, FLOW LINES AND BLUSH MARKS,PER DOC0411596.

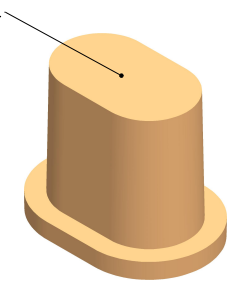
8. FOR DETAILED GEOMETRY REFER 3D CAD DATA 5889707_REV-1.STP.

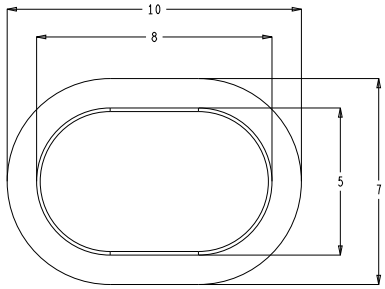
9. REFERENCE INFORMATION: VOLUME = 292.511 MM^3. AREA = 293.108 mm^2.

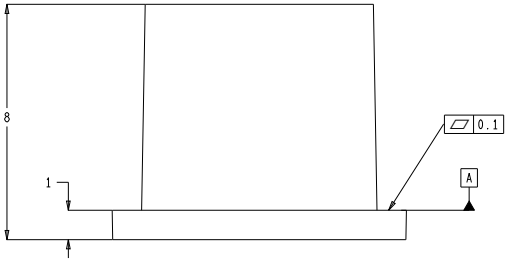
10. PART TO BE GEHC ROHS-3 COMPLIANT PER 5240305GSP.

11. MARK PER GEHC DOCUMENT 46-274914 CLASS 1 LABEL PLACEMENT CANNOT BE ON PART.

12. OREINTATION OF PART ON THIS DRAWING DOES NOT REFLECT OREINTATION OF PART IN THE TOOL.







開發部
2023.06.19
發行
旺肇科技開發股份有限公司

3MD634PA020(M3458)

1	INITIAL RELEASE	ER0011118
REV	REVISIONS	ECO

DESIGN OWNER: P.NISHAD	DO NOT SCALE DRAWING
ESSENTIAL CLASSIFICATION: EC ESSENTIAL NO; NON ESSENTIAL YES	TOLERANCES AND FINISH UNLESS OTHERWISE SPECIFIED: 1) DIMENSIONS ARE IN MM. X.X ±0.1, X.XX ±0.05, X.XXX ±0.025, X° ±1.0° 2) SURFACE ROUGHNESS --- ✓
RoHS COMPLIANT	THIRD ANGLE PROJECTION
ITEM INDICATED MAY REQUIRE A SUPPLIER QUALITY PLAN.	CONFIDENTIAL: THIS PRINT AND THE DESIGN THEREIN REPRESENTED ARE THE PROPERTY OF GE HEALTHCARE AND MAY NOT BE USED IN ANY MANNER DETRIMENTAL TO IT'S INTEREST. THIS PRINT HAS BEEN ISSUED WITH THE UNDERSTANDING THAT IT WILL NOT BE USED FOR MANUFACTURE FOR OTHERS, AND WILL BE RETURNED UPON REQUEST.

GE Healthcare

ITEM DESCRIPTION: LED LIGHT PIPE LOTUS MONITOR

DRAWING SIZE	ITEM NUMBER	REVISION
C	5889707DDW	1

PROJECT	SCALE	SHEET
LOTUS	-	1 OF 1

Component - Plastics
File Number: E56070

CHI MEI CORPORATION
59-1 SAN CHIA, JEN TE, TAINAN 717 TW

Wonderlite: PC-110(+)
Polycarbonate (PC), pellets

(+) - Optional prefix or suffix; may be used to denote usage of 0-0.5 percent acid scavengers. For PC-110(+), Optional the suffix except L, N, U, V, T, and F. For Grades PC-6015(+), PB-1202(+), Maybe none or replace by one alphabet to indicate the color.

Flammability	Value	Test Method
Flame Rating		
3.00 mm, ALL	HB	UL 94
1.50 mm, ALL	V-2	UL 94 IEC 60695-11-10, -20
2.50 to 2.80 mm, ALL	V-2	UL 94 IEC 60695-11-10, -20
3.00 mm, ALL	HB40	IEC 60695-11-10, -20
Electrical	**Value**	**Test Method**
Hot-wire Ignition (HWI)		UL 746
1.50 mm	PLC 2	
2.50 to 2.80 mm	PLC 2	
3.00 mm	PLC 2	
High Amp Arc Ignition (HAI)		UL 746
1.50 mm	PLC 4	
2.50 to 2.80 mm	PLC 3	
3.00 mm	PLC 3	
Comparative Tracking Index (CTI)	PLC 2	UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 2	UL 746
Arc Resistance	PLC 6	ASTM D495
Thermal	**Value**	**Test Method**
RTI Elec		UL 746
1.50 mm	125 °C	
2.50 to 2.80 mm	125 °C	
3.00 mm	125 °C	
RTI Imp		UL 746
1.50 mm	105 °C	
2.50 to 2.80 mm	105 °C	
3.00 mm	105 °C	
RTI Str		UL 746
1.50 mm	125 °C	
2.50 to 2.80 mm	125 °C	
3.00 mm	125 °C	

Form Number: E56070-100239152
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Report Date: 9/25/2001
Last Revised: 6/4/2009

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

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Report Date: 9/25/2001
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No. 398 , Sec. 1 , Zhongzheng Rd., Rende Dist., Tainan City 717010 , Taiwan

General PC WONDERLITE® Characteristics PC-110

特性 PROPERTIES	測試方法 ASTM TEST METHOD	測試條件 TEST CONDITION	單位 UNIT	通用級 GENERAL PC-110
熔融指數 Melt Flow Index	D1238	300 ℃, 1.2 Kg	g/10 min	10.0
比重 Mass Density	D792	23 ℃	-	1.2
硬度 Hardness	D785	-	M Scale	77
拉伸強度 (屈服) Tensile Strength (Yield)	D638	6 mm/min	Kg/cm^2	630
			lb/in^2	8935
延伸率 Tensile Elongation	D638	6 mm/min	%	110
彎曲強度 Flexural Strength	D790	1.3 mm/min	Kg/cm^2	920
			lb/in^2	13030
彎曲彈性模數 Flexural Modulus	D790	1.3 mm/min	10^4 Kg/cm^2	2.4
			10^5 lb/in^2	3.4
IZOD 衝擊強度 Izod Impact Strength	D256 (Notched)	3.2 mm, 23℃	Kg-cm/cm	87
			ft-lb/in	15.9
維氏軟化溫度 Vicat Softening Temp.	D1525	1 Kg,50 ℃/hr	℃	150
			℉	302
熱變形溫度 Heat Distortion Temp.	D648	Unannealed	℃	125
			℉	257
UL 燃燒等級 UL Flammability	UL 94	-	-	1.5 mm V-2

July 1, 2021

Notes : These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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CHIMEI CORPORATION
No. 398 , Sec. 1 , Zhongzheng Rd., Rende Dist., Tainan City 717010 , Taiwan

Data issued: May 5, 2022
Valid period: 12 months

Bulletin

We, CHIMEI CORPORATION, to the best of our knowledge hereby certify that the resins listed below (hereinafter referred as "products") as directly manufactured by us

WONDERLITE® PC	PC-108U, PC-110(U), PC-110L, PC-110V, PC-115(U), PC-115L, PC-115P, PC-115P F01, PC-115P F17111C1, PC-122(U), PC-145K, PC-145K F01, PC-175, PC-616LS, PC-681U, PC-6015, PC-6500, PC-6510, PC-6600, PC-6600 J01, PC-6610, PC-6610 J01, PC-6620, PC-6700, PC-6710, PC-6715VT, FC-910, FC-975
WONDERLOY® PC Alloy	PC-330, PC-345, PC-365, PC-385, PC-510, PC-540(A), PC-540(A) J01, PC-540, PC-540 J01, PC-540 J09, PC-540H, PC-541

conforms to the requirement that no chemicals as following are added.

1. Halogen (Br, I) and its compounds
2. Halogen (Cl)
3. PBDEs (Polybrominated Diphenyl Ethers)
4. PBBs (Polybrominated Biphenyls)
5. Ozone Depleting Chemicals (CFCs & HCFCs)
6. Chlorinated Paraffin (C10-C13)
7. Polyvinyl Chloride (PVC)
8. Mercury (Hg) and its compounds
9. Lead (Pb) and its compounds
10. Cadmium (Cd) and its compounds
11. Chromium (Cr) and its compounds
12. Arsenic (As) and its compounds
13. Antimony (Sb) and its compounds
14. Selenium (Se) and its compounds
15. Barium (Ba) and its compounds
16. Beryllium (Be) and its compounds
17. Bismuth (Bi) and its compounds
18. Organic tin compounds (TBT, TPT, DOT, DBT…etc)
19. Polychlorinated Biphenyls (PCBs) and Terphenyls (PCTs) and Naphtalenes (PCNs)
20. Poly naphthalenes
21. Azo colorants (according to REACH-ANNEX-XVII-APPENDIX 8)
22. Asbestos
23. Phthalates
24. APEO: Including Alkylphenol(AP), Octylphenol(OP), Nonylphenol(NP), Octylphenol ethoxylates(OPE), Nonylphenol ethoxylates(NPE)
27. Dimethylfumarate (DMF)
28. Triclosan
29. Nickel
30. PAHs (Polycyclic Aromatic Hydrocarbons)
31. REACH- Candidate List of SVHC
32. Radioactive Substances
33. Natural Latex
34. Dioxins and furans
35. Primary aromatic amines (PAA)
36. Perchlorate
37. Hexachlorobenzene
38. Mirex
39. Specified amine compounds
40. Benzene
41. Benzenamine, *N*-phenyl-, Reaction Products with Styrene and 2,4,4-Trimethylpentene (BNST)
42. Polyamide
43. PVDC (polyvinylidene chloride)
44. ESBO (Expoxidized soybean oil)
45. Formamide
46. Hexabromocyclododecane (*HBCDD*)
47. Red phosphorus
48. Aniline・formaldehyde polycondensate
49. Chlorobenzene
50. 4,4'-Sulfonyldiphenol (BPS)
51. Cobalt
52. PIP (3:1) (phenol, isopropylated phosphate 3:1)
53. DecaBDE (decabromodiphenyl ether)
54. 2,4,6-TTBP (2,4,6-Tris(tert-butyl)phenol)
55. HCBD (hexachlorobutadiene)

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25. 2-(2'-Hydroxy-3',5'-di-tert-butylphenyl)benzotriazole
26. Formaldehyde
56. PCTP (pentachlorothiophenol)
57. PFOA, PFOS, PFAS

With regard to composition of above grades of products, the aforesaid products comply with the Directives of RoHS 2011/65/EU and its amendment (EU) 2015/863, TCO'07, Blue Angel and SONY Standard (SS-00259)

Sincerely Yours,

Perry D. B. Shiueh
Vice President of R&D Division

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Data issued: January 30, 2023
Valid period: 12 months

Bulletin

We, CHIMEI CORPORATION, to the best of our knowledge hereby certify that the resins listed below (hereinafter referred as "products") as directly manufactured by us

POLYLAC® ABS (J01)	PA-704LRP, PA-705, PA-707, PA-709, PA-709A, PA-709H, PA-709K, PA-709P, PA-709S, PA-716, PA-717C, PA-718, PA-726, PA-726M, PA-727, PA-728, PA-737, PA-737 A03, PA-746, PA-746H, PA-746M, PA-746Y, PA-747, PA-747F, PA-747H, PA-747R, PA-747S, PA-747S A01, PA-747S J01, PA-749, PA-749S, PA-756, PA-756H, PA-756S, PA-757, PA-757 A01, PA-757 J04, PA-757 AB, PA-757F, PA-757G J08, PA-757H, PA-757N, PA-763, PA-764, PA-764B, PA-764G, PA-797, PA-797S, PA-777B, PA-777C, PA-777D, PA-777E, PA-77BS, PA-77DS, PA-77NB (J01) - The suffix may be used to denote the black color grade manufactured from CHIMEI Corp. (A01 & A03) - The suffix may be used to denote the white color grade manufactured from CHIMEI Corp.
POLYLAC®MABS	PA-703TRP, PA-758, PA-758R
POLYLAC®ABS/PMMA Alloy	PA-728 PF
KIBISAN® SAN	PN-106 L150, PN-107 L125, PN-107 L125 FG, PN-117 L100, PN-117 L200, PN-117C, PN-117H L150 FG, PN-127 L100, PN-127 L150, PN-127 L150 FG, PN-127 L200, PN-127H, PN-137H, PN-177B, PN-177E
POLYREX® PS	PG-22, PG-33, PG-80, PG-80N, PG-383, PG-383D, PH-55Y, PH-60, PH-88, PH-888H, PH-888G, PH-88S, PH-88SF, PH-875, PH-875A
ACRYREX® PMMA	CM-203, CM-205, CM-205G, CM-205M, CM-205N, CM-207, CM-207G, CM-211, CM-211G, CM-220HT
ACRYSTEX® SMMA	PM-500, PM-500G, PM-600

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WONDERLITE® PC	PC-108(U), PC-110(U) , PC-110D, PC-110L, PC-110V, PC-115L, PC-115(U), PC-115P, PC-115P F01, PC-115P F17111C1, PC-122(U), PC-140LTU, PC-145K, PC-175, PC-175B, PC-20D, PC-25D, PC-60D, PC-616LS, PC-681U, PC-6015, PC-6500, PC-6600, PC-6600 J01, PC-6610, PC-6610 J01, PC-6620, PC-6620 J01, PC-6700, PC-6710, PC-6715VT, EG-8410, EG-8420, EG-8430
WONDERLOY® PC Alloy (J01)	PC-330, PC-345, PC-345P, PC-365, PC-385, PC-510, PC-540, PC-540A, PC-540H, PC-541, PC-545, PC-860, PC-990 (J01) - The suffix may be used to denote the black color grade manufactured from CHIMEI Corp.
KIBITON® TPE	PB-511, PB-575, PB-585, PB-587, PB-5300, PB-5301, PB-5302, PB-5308, PB-5502
KIBITON® Q-resin	PB-5630, PB-5900, PB-5903, PB-5906, PB-5910, PB-5925
KIBIPOL® LBR/SSBR/HBR	PR-040, PR-040G, PR-040S, PR-050, PR-060, PR-060S, PR-245, PR-255, PR-303, PR-1205
ACRYPOLY®	CM-205B, CM-205X, PM-500X, LM-700X
KIBILITE®	DM-551M, DM-551R, DM-601M, DM-601R, DS-551A, DS-553A, DS-553H, DS-601A, DS-601S, DS-601Y, DS-603A, DS-653A, DS-943A, DS-963E, DS-40SC, DS-40SY, DS-45SC, DS-50SY, DS-55SS, DS-55SY, DS-60SS, DS-60SY
KIBILAC® ASA (J01)	PW-957, PW-978B, PW-997, PW-997L, PW-997S (J01) - The suffix may be used to denote the black color grade manufactured from CHIMEI Corp.

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conform to the below requirement of REACH SVHC 233 substances according to (EC) 1907/2006.

Substance Name	CAS No.	EC number	Substance Name	CAS No.	EC number
Cadmium	7440-43-9	231-152-8	4-Nonylphenol, branched and linear, ethoxylated *[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]*		
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4			
Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9			
Dipentyl phthalate (DPP)	131-18-0	205-017-9			
Cadmium oxide	1306-19-0	215-146-2			
Triethyl arsenate	15606-95-8	427-700-2	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	204-211-0
Anthracene	120-12-7	204-371-1	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	25637-99-4 and 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	247-148-4 and 221-695-9 — — —
4,4'-Diaminodiphenylmethane (MDA)	101-77-9	202-974-4			
Dibutyl phthalate (DBP)	84-74-2	201-557-4			
Cobalt dichloride	7646-79-9	231-589-4			
Diarsenic pentaoxide	1303-28-2	215-116-9	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5
Diarsenic trioxide	1327-53-3	215-481-4	Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0
Sodium dichromate	7789-12-0	234-190-3	Lead hydrogen arsenate	7784-40-9	232-064-2
5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7
Anthracene oil	90640-80-5	292-602-7	Zirconia Aluminosilicate, Refractory Ceramic Fibres	—	—
Anthracene oil, anthracene paste, distn. lights	91995-17-4	295-278-5	2,4-Dinitrotoluene	121-14-2	204-450-0
Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	Diisobutyl phthalate	84-69-5	201-553-2

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Anthracene oil, anthracene-low	90640-82-7	292-604-8	Lead chromate	7758-97-6	231-846-0
Anthracene oil, anthracene paste	90640-81-6	292-603-2	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	235-759-9
Coal tar pitch, high temp.	65996-93-2	266-028-2	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7
Acrylamide	79-06-1	201-173-7	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5
Aluminosilicate Refractory Ceramic Fibres	–	–			
Ammonium dichromate	7789-09-5	232-143-1	Potassium dichromate	7778-50-9	231-906-6
Boric acid	10043-35-3 (1113-50-1)	233-139-2 (234-343-4)	Sodium chromate	7775-11-3	231-889-5
Disodium tetraborate, anhydrous	1330-43-4	215-540-4	Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3
Potassium chromate	7789-00-6	232-140-5	Trichloroethylene	79-01-6	201-167-4
Cobalt(II) sulphate	10124-43-3	233-334-2	Chromium trioxide	1333-82-0	215-607-8
Cobalt(II) dinitrate	10141-05-6	233-402-1	Acids generated from chromium trioxide and their oligomers:		
Cobalt(II) carbonate	513-79-1	208-169-4			
Cobalt(II) diacetate	71-48-7	200-755-8	Chromic acid	7738-94-5	231-801-5
2-Methoxyethanol	109-86-4	203-713-7	Dichromic acid	13530-68-2	236-881-5
2-Ethoxylethanol	110-80-5	203-804-1	Oligomers of chromic acid and dichromic acid		
2-Ethoxyethyl acetate	111-15-9	203-839-2	1-Methyl-2-pyrrolidone	872-50-4	212-828-1
Strontium chromate	7789-06-2	232-142-6	1, 2, 3-Trichloropropane	96-18-4	202-486-1
1, 2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	1, 2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1
Hydrazine	302-01-2 (7803-57-8)	206-114-9			
Calcium arsenate	7778-44-1	231-904-5	Pentazinc chromate octahydroxide	49663-84-5	256-418-0
Bis(2-methoxyethyl) ether	111-96-6	203-924-4	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2
Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	234-329-8	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1
Lead dipicrate	6477-64-1	229-335-2	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6
N,N-dimethylacetamide	127-19-5	204-826-4	Lead diazide, Lead azide	13424-46-9	236-542-1
Arsenic acid	7778-39-4	231-901-9	Lead styphnate	15245-44-0	239-290-0
2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9
Trilead diarsenate	3687-31-8	222-979-5	Phenolphthalein	77-09-8	201-004-7

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1,2-dichloroethane	107-06-2	203-458-1	Dichromium tris(chromate)	24613-89-6	246-356-2
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6	Lead(II) bis(methanesulfonate)	17570-76-2	401-750-5
α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	Formamide	75-12-7	200-842-0
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	[4-[[4-anilino-1-naphthyl][4-(dimethylamino) phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	219-943-6
1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	423-400-0	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9
Diboron trioxide	1303-86-2	215-125-8	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	219-514-3
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2			
Pyrochlore, antimony lead yellow	8012-00-8	232-382-1	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1
Henicosafluoroundecanoic acid	2058-94-8	218-165-4	Hexahydromethylphthalic anhydride	25550-51-0	247-094-1
Cyclohexane-1,2-dicarboxylic anhydride	85-42-7	201-604-9	Hexahydro-4-methylphthalic anhydride	19438-60-9	243-072-0
cis-cyclohexane-1,2-dicarboxylic anhydride	13149-00-3	236-086-3	Hexahydro-1-methylphthalic anhydride	48122-14-1	256-356-4
trans-cyclohexane-1,2-dicarboxylic anhydride	14166-21-3	238-009-9	Hexahydro-3-methylphthalic anhydride	57110-29-9	260-566-1
Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	Lead bis(tetrafluoroborate)	13814-96-5	237-486-0
Lead dinitrate	10099-74-8	233-245-9	Silicic acid, lead salt	11120-22-2	234-363-3
4-Aminoazobenzene	60-09-3	200-453-6	Lead titanium zirconium oxide	12626-81-2	235-727-4

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Lead monoxide (lead oxide)	1317-36-8	215-267-0	o-Toluidine	95-53-4	202-429-0
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	Silicic acid ($H_2Si_2O_5$), barium salt (1:1), lead-doped	68784-75-8	272-271-5
Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6	Furan	110-00-9	203-727-3
N,N-dimethylformamide	68-12-2	200-679-5	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	–	–
4-Nonylphenol, branched and linear	–	–	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8
Diethyl sulphate	64-67-5	200-589-6	Dimethyl sulphate	77-78-1	201-058-1
Lead oxide sulfate	12036-76-9	234-853-7	Lead titanium trioxide	12060-00-3	235-038-9
Acetic acid, lead salt, basic	51404-69-4	257-175-3	[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	N-methylacetamide	79-16-3	201-182-6
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	1,2-Diethoxyethane	629-14-1	211-076-1
Tetralead trioxide sulphate	12202-17-4	235-380-9	N-pentyl-isopentylphthalate	776297-69-9	–
Dioxobis(stearato)trilead	12578-12-0	235-702-8	Tetraethyllead	78-00-2	201-075-4
Pentalead tetraoxide sulphate	12065-90-6	235-067-7	Pentacosafluorotridecanoic acid	72629-94-8	276-745-2
Tricosafluorododecanoic acid	307-55-1	206-203-2	Heptacosafluorotetradecanoic acid	376-06-7	206-803-4
1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	Methoxyacetic acid	625-45-6	210-894-6
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	Methyloxirane (Propylene oxide)	75-56-9	200-879-2
Trilead dioxide phosphonate	12141-20-7	235-252-2	o-aminoazotoluene	97-56-3	202-591-2
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	4,4'-oxydianiline and its salts	101-80-4	202-977-0
Orange lead (lead tetroxide)	1314-41-6	215-235-6	Biphenyl-4-ylamine	92-67-1	202-177-1
Diisopentylphthalate	605-50-5	210-088-4	Fatty acids, C16-18, lead salts	91031-62-8	292-966-7
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1
Lead cyanamidate	20837-86-9	244-073-9			

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Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo) naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	217-710-3
Cadmium sulphide	1306-23-6	215-147-8	Dihexyl phthalate	84-75-3	201-559-5
Lead di(acetate)	301-04-2	206-104-4	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	202-506-9
Trixylyl phosphate	25155-23-1	246-677-8			
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	Sodium perborate; perboric acid, sodium salt	–	239-172-9; 234-390-0
Cadmium chloride	10108-64-2	233-296-7	Sodium peroxometaborat	7632-04-4	231-556-4
Cadmium fluoride	7790-79-6	232-222-0	Cadmium sulphate	10124-36-4; 31119-53-6	233-331-6
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	–	–
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	271-094-0 272-013-1	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	–	–
1,3-propanesultoneG	1120-71-4	214-317-9	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8
Nitrobenzene	98-95-3	202-716-0			
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3
Benzo[def]chrysene	50-32-8	200-028-5			

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4,4'-isopropylidenediphenol	80-05-7	201-245-8	4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	–	–
Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Nonadecafluorodecanoic acid Ammonium nonadecafluorodecanoate Decanoic acid, nonadecafluoro-, sodium salt	335-76-2 3108-42-7 3830-45-3	206-400-3 221-470-5 –			
p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9			
Perfluorohexane-1-sulphonic acid and its salts	–	–	Chrysene	218-01-9	205-923-4
Benz[a]anthracene	56-55-3	200-280-6	Cadmium hydroxide	21041-95-2	244-168-5
Cadmium nitrate	10325-94-7	233-710-6	Cadmium carbonate	513-78-0	208-168-9
1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.$1^{6,9}$.$0^{2,13}$.$0^{5,10}$]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	–	–	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear	–	–
Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9
Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	Lead	7439-92-1	231-100-4
Disodium octaborate	12008-41-2	234-541-0	Benzo[ghi]perylene	191-24-2	205-883-8
Terphenyl hydrogenated	61788-32-7	262-967-7	Ethylenediamine (EDA)	107-15-3	203-468-6
Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	209-008-0	Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9
1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one 3-benzylidene camphor; 3-BC	15087-24-8	239-139-9	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1
Benzo[k]fluoranthene	207-08-9	205-916-6	Phenanthrene	85-01-8	201-581-5
Pyrene	129-00-0; 1718-52-1	204-927-3	Fluoranthene	206-44-0; 93951-69-0	205-912-4

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2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides covering any of their individual isomers and combinations thereof	–	–	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	–	–
2-methoxyethyl acetate	110-49-6	203-772-9	4-tert-butylphenol	98-54-4	202-679-0
Perfluorobutane sulfonic acid (PFBS) and its salts	–	–	Diisohexyl phthalate	71850-09-4	276-090-2
2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3
Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	245-152-0	butyl 4-hydroxybenzoate	94-26-8	202-318-7
2-methylimidazole	693-98-1	211-765-7	1-vinylimidazole	1072-63-5	214-012-0
Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	205-594-7	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	–	–
Glutaral	111-30-8	203-856-5	Orthoboric acid, sodium salt	13840-56-7	237-560-2
Medium-chain chlorinated paraffins (MCCP) UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17	–	–	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	–	–
2,2-bis(bromomethyl)propane1,3-diol (BMP);	3296-90-0;36483-57-5;1522-92-5;96-13-9	221-967-7;253-057-0;202-480-9	4,4'-(1-methylpropylidene)bisphenol	77-40-7	201-025-1
2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA);			2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	–	–
2,3-dibromo-1-propanol (2,3-DBPA)			1,4-dioxane	123-91-1	204-661-8

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(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	–	–	S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	401-850-9
(3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	1782069-81-1	–			
(1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	95342-41-9	–			
(1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	852541-25-4	–			
(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one	36861-47-9	253-242-6			
(1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	741687-98-9	–			
(1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	852541-30-1	–			
(1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	852541-21-0	–			
tris(2-methoxyethoxy)vinylsilane	1067-53-4	213-934-0	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	204-327-1
N-(hydroxymethyl)acrylamide	924-42-5	213-103-2	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene] - BTBPE	37853-59-1	253-692-3
2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	201-236-9	4,4'-sulphonyldiphenol	80-09-1	201-250-5
Barium diboron tetraoxide	13701-59-2	237-222-4	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	–	—
Isobutyl 4-hydroxybenzoate	4247-02-3	224-208-8	Melamine	108-78-1	203-615-4

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Perfluoroheptanoic acid and its salts	–	—	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	–	473-390-7

With regard to the composition of above grades of products, the aforesaid products are in compliance with Article 59 (10) of the REACH Regulation (the concentration of SVHC lower than 0.1% (w/w)) of (EC) No 1907/2006

Sincerely Yours,

Jones Kuo

Jones Kuo

Vice President of Research and Development Head Division

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Report No.:	238550813k3 001	*Page 1 of 6*
Client:	CHIMEI Corporation No.398, Sec. 1, Zhongzheng Rd., Rende Dist., Tainan City 717010, Taiwan, R.O.C.	
Test item(s):	POLYCARBONATE	
Identification/Model No(s):	WONDERLITE® PC-110	
Sample obtaining method:	Sending by customer	
Condition at delivery:	Test item complete and undamaged.	
Sample receiving date:	2022-12-02	
Testing period:	2022-12-02 – 2023-01-03	
Place of testing:	TÜV Rheinland (Shanghai) Co. Ltd.	

Test specification:	***Test result:***
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)	Pass
Halogen (Fluorine, Chlorine, Bromine, Iodine)	Refer to result page

Other information: Refers to TÜV test report no.: 238550813k2 001.

For and on behalf of
TÜV Rheinland Taiwan Ltd.

2023-01-03
Date

Arthur Cheng/Project Manager
Name/Position

TÜV Rheinland Taiwan Ltd. TÜVRheinland Softlines

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..

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 Material Lab.-No.		RL	WONDERLITE® PC-110 plastic/transparent TCL221202-95
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

Test Method : BBP/DBP/DEHP/DIBP - Ref. to IEC 62321-8:2017
Halogen - Following EN 14582; determination by I.C.

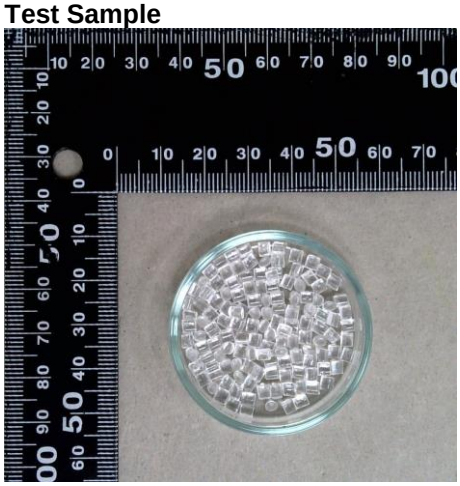
Sample Material Lab.-No.		RL	WONDERLITE® PC-110 plastic/transparent TCL221202-95
Benzylbutylphthalate (BBP)	mg/kg	50	< RL
Dibutylphthalate (DBP)	mg/kg	50	< RL
Diethylhexylphthalate (DEHP)	mg/kg	50	< RL
Diisobutylphthalate (DIBP)	mg/kg	50	< RL

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

Sample Material Lab.-No.			WONDERLITE® PC-110 plastic/transparent TCL221202-95
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

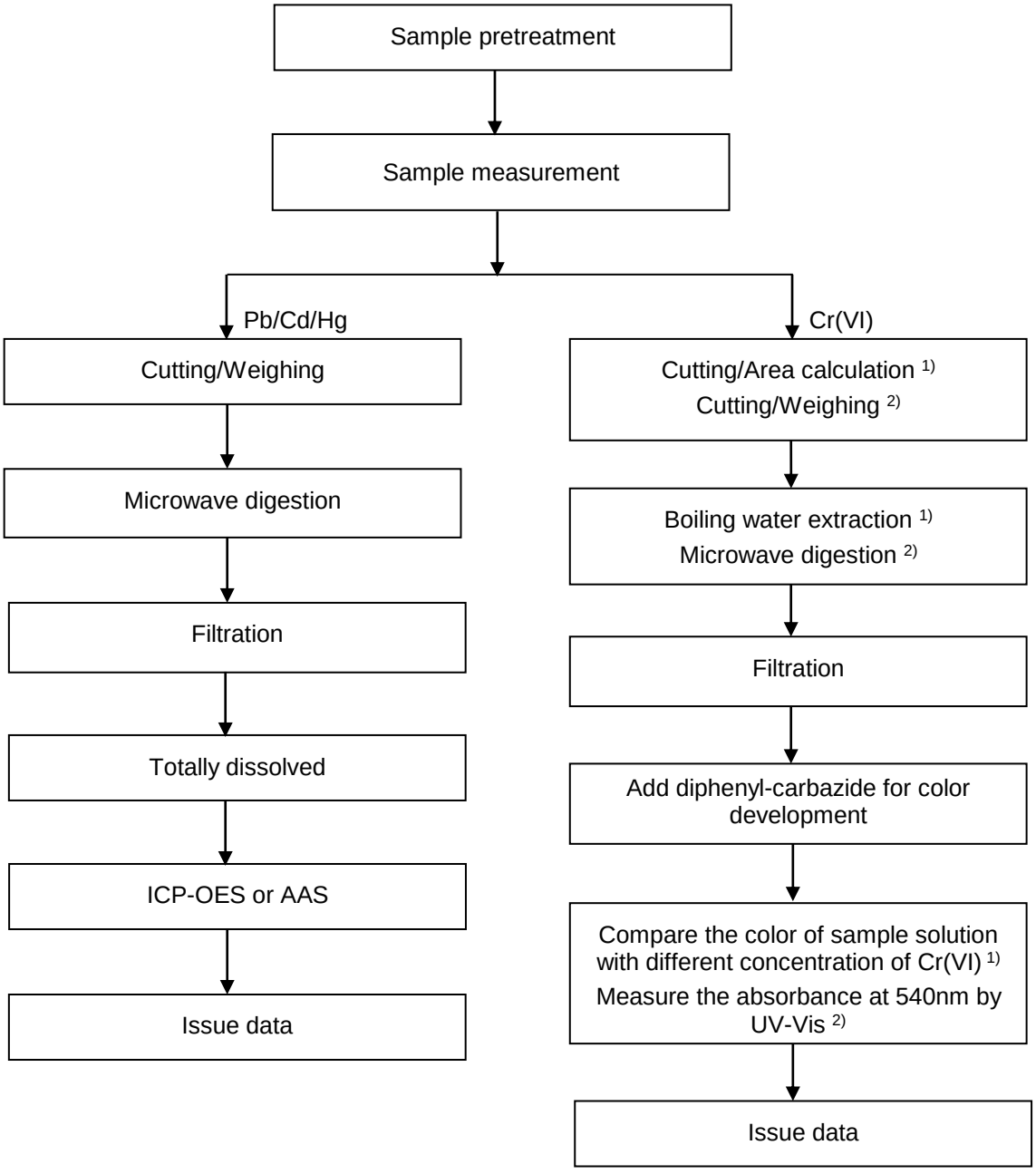
Notes:
- < = less than
- RL = Reporting Limit
- n.a. = not applicable
- mg/kg = milligram per kilogram

Test Sample



Testing procedure:

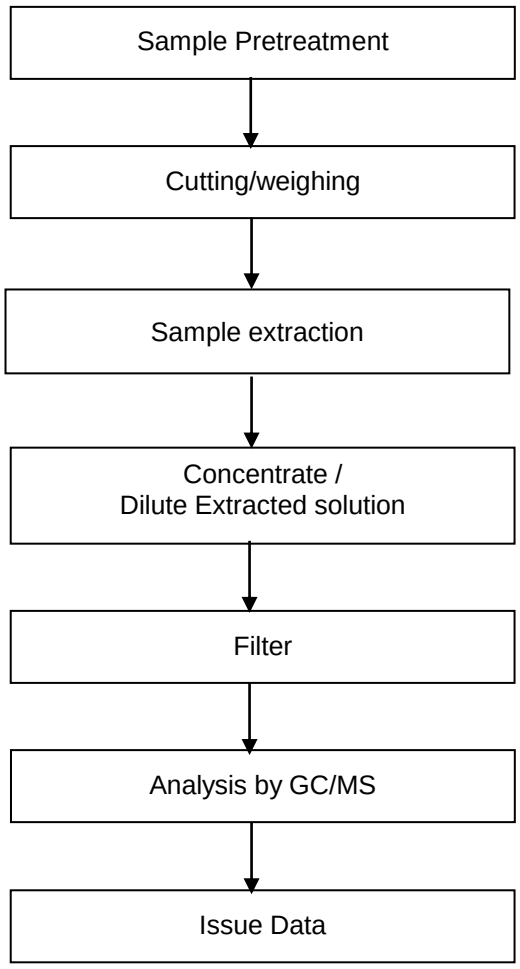
RoHS (Pb, Cd, Hg, Cr(VI))



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

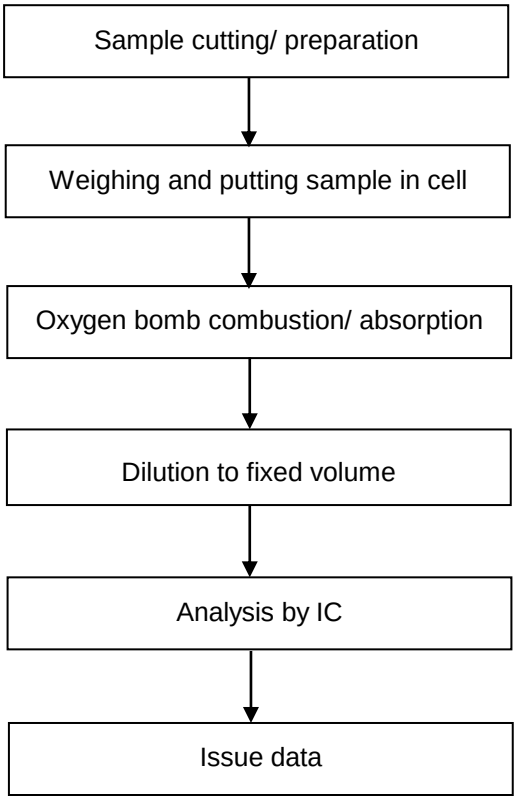
Testing procedure:

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



Testing procedure:

Halogen



--- End of Test-Report ---