

WONDERLITE PC-108U

PC

CHIMEI Corporation

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	6.5	cm ³ /10min	ISO 1133
Temperature	300	°C	-
Load	1.2	kg	-
Molding shrinkage, parallel	0.6	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	6.5	g/10min	ASTM D 1238
Temperature	300	°C	-
Load	1.2	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Yield stress	65	MPa	ISO 527
Stress at break	75	MPa	ISO 527
Flexural modulus, 23°C	2400	MPa	ISO 178
Flexural strength	90	MPa	ISO 178
Charpy notched impact strength, +23°C	75	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	75	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Strength at Yield	61.8	MPa	ASTM D 638
Flexural Modulus	2354	MPa	ASTM D 790
Flexural Strength	90.3	MPa	ASTM D 790
Rockwell Hardness	R 77	-	ASTM D 785
Izod Impact unnotched, 1/8 in	853	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	128	°C	ISO 75-1/-2
Vicat softening temperature, A	150	°C	ISO 306
Vicat softening temperature, B	145	°C	ISO 306
Coeff. of linear therm. expansion, parallel	70	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Burning behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.5	mm	-
DTUL @ 264 psi	128	°C	ASTM D 648
Vicat Temperature	150	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1200	kg/m ³	ISO 1183
Density	1200	kg/m ³	ASTM D 792

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Mold temperature	70 - 120	°C	-
Feed temperature	230 - 310	°C	-
Zone 1	250 - 330	°C	-
Nozzle temperature	250 - 320	°C	-

Characteristics

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Processing

Other Extrusion

Special Characteristics

U.V. stabilized or stable to weather

Additives

Release agent

Regional Availability

Asia Pacific