

Chi Mei Wonderlite[®] PC-115U

Low viscosity, UV stabilized. Applications: Outdoor applications, traffic signs.

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ISO 294-4
Melt Flow	15 g/10 min @Load 1.20 kg, Temperature 300 °C	15 g/10 min @Load 2.65 lb, Temperature 572 °F	Melt Volume Rate (ml/10 min.); ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	50mm/min; ISO 527
Tensile Strength, Yield	64.0 MPa	9280 psi	50 mm/min; ISO 527
Elongation at Break	120 %	120 %	50mm/min; ISO 527
Flexural Strength	90.0 MPa	13100 psi	2mm/min; ISO 178
Flexural Modulus	2.40 GPa	348 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	70.0 kJ/m ² @Thickness 3.17 mm	33.3 ft-lb/in ² @Thickness 0.125 in	ISO 180/1A
Charpy Impact, Notched	7.00 J/cm ²	33.3 ft-lb/in ²	1/8"; ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 - 80.0 µm/m-°C	33.3 - 44.4 µin/in-°F	ISO 11359
Deflection Temperature at 1.8 MPa (264 psi)	127 °C	261 °F	Unannealed; ISO 75/A
	142 °C	288 °F	Annealed; ISO 75/A
Vicat Softening Point	143 °C @Load 5.00 kg	289 °F @Load 11.0 lb	50°C/hr; ISO 306
	148 °C @Load 1.00 kg	298 °F @Load 2.20 lb	50°C/hr; ISO 306

Flammability, UL94

V-2
@Thickness 1.50 mm

V-2
@Thickness 0.0591 in