

Chi Mei Wonderlite® PC-110 Polycarbonate


Categories: [Polymer](#); [Thermoplastic](#); [Polycarbonate](#)

Material Notes: Medium Viscosity

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Melt Flow	10.0 g/10 min @Load 1.20 kg, Temperature 300 °C	10.0 g/10 min @Load 2.65 lb, Temperature 572 °F	Melt Volume Rate (ml/10 min); ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	100 MPa	14500 psi	H358/30; ISO 2039-1
Tensile Strength at Break	75.0 MPa	10900 psi	50 mm/min; ISO 527
Tensile Strength, Yield	65.0 MPa	9430 psi	50 mm/min; ISO 527
Elongation at Break	120 %	120 %	50 mm/min; ISO 527
Flexural Modulus	2.40 GPa	348 ksi	2 mm/min; ISO 178
Flexural Strength	90.0 MPa	13100 psi	2 mm/min; ISO 178
Charpy Impact, Notched	7.50 J/cm ²	35.7 ft-lb/in ²	ISO 179
Izod Impact, Notched (ISO)	80.0 kJ/m ²	38.1 ft-lb/in ²	ISO 180/4A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	128 °C	262 °F	annealed; ISO 75
	143 °C	289 °F	unannealed; ISO 75
Vicat Softening Point 	145 °C @Load 5.00 kg	293 °F @Load 11.0 lb	50 °C/hr; ISO 306
	150 °C @Load 1.00 kg	302 °F @Load 2.20 lb	50 °C/hr; ISO 306
Flammability, UL94	V-2 @Thickness 2.54 mm	V-2 @Thickness 0.100 in	

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.