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/in³	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/cm²	35.7 ft-lb/in²	ISO 179
Izod Impact, Notched (ISO)	80.0 kJ/m²	38.1 ft-lb/in²	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	