

Chi Mei Wonderlite® PC-175 Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Optical Disk

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chi-Mei-Wonderlite-PC-175-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Melt Flow	65 g/10 min @Load 1.20 kg, Temperature 300 °C	65 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	106 MPa	15400 psi	H358/30; ISO 2039-1
Tensile Strength at Break	50.0 MPa	7250 psi	50 mm/min; ISO 527
Tensile Strength, Yield	60.0 MPa	8700 psi	50 mm/min; ISO 527
Elongation at Break	65 %	65 %	50 mm/min; ISO 527
Flexural Strength	90.0 MPa	13100 psi	2 mm/min; ISO 178
Flexural Modulus	2.40 GPa	348 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	ISO 180/4A
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	124 °C	255 °F	annealed; ISO 75
	140 °C	284 °F	unannealed; ISO 75
Vicat Softening Point	140 °C @Load 5.00 kg	284 °F @Load 11.0 lb	50°C/hr; ISO 306
	145 °C @Load 1.00 kg	293 °F @Load 2.20 lb	50°C/hr; ISO 306

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