

Chi Mei Wonderlite® PC-110L Polycarbonate - UV Stabilized

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, UV Stabilized

Material Notes:

Head Lamp

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chi-Mei-Wonderlite-PC-110L-Polycarbonate-UV-Stabilized.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Melt Flow	10 g/10 min @Load 1.20 kg, Temperature 300 °C	10 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 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)	80.0 kJ/m ²	38.1 ft-lb/in ²	ISO 180/4A
Charpy Impact, Notched	7.50 J/cm ²	35.7 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	127 °C	261 °F	annealed; ISO 75
	142 °C	288 °F	unannealed; ISO 75
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 0.0590 in	

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