

Chi Mei Wonderloy® PC-345P

Product Description: High flow, Electroplating

Availability: Africa & Middle East; Europe; Asia Pacific; Latin America; North America

Features: High Flow; Platable

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ISO 294-4
Melt Flow	17 g/10 min @Load 5.00 kg, Temperature 260 °C	17 g/10 min @Load 11.0 lb, Temperature 500 °F	ISO 1133

Spiral Flow

38.1 cm

15.0 in

Melt Temperature:
500°F, 2 mm, V: 50%,
P: 50%

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	41.0 MPa	5950 psi	ISO 527-2/50
Tensile Strength, Yield	47.0 MPa	6820 psi	ISO 527-2/50
Elongation at Break	100 %	100 %	ISO 527-2/50
Flexural Strength	70.3 MPa	10200 psi	0.079 in/min; ISO 178
Flexural Modulus	1.95 GPa	283 ksi	0.079 in/min; ISO 178
Izod Impact, Notched (ISO)	35.7 kJ/m ² @Thickness 3.20 mm, Temperature -30.0 °C	17.0 ft-lb/in ² @Thickness 0.126 in, Temperature -22.0 °F	ISO 180/1A
	39.9 kJ/m ² @Thickness 3.20 mm, Temperature 22.8 °C	19.0 ft-lb/in ² @Thickness 0.126 in, Temperature 73.0 °F	ISO 180/1A
Charpy Impact, Notched	3.57 J/cm ² @Thickness 3.20 mm, Temperature -30.0 °C	17.0 ft-lb/in ² @Thickness 0.126 in, Temperature -22.0 °F	ISO 179
	3.99 J/cm ² @Thickness 3.20 mm, Temperature 22.8 °C	19.0 ft-lb/in ² @Thickness 0.126 in, Temperature 73.0 °F	ISO 179

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+18 ohm-cm	1.00e+18 ohm-cm	IEC 60093
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	IEC 60093
Dielectric Constant	3.1 @Frequency 1e+6 Hz	3.1 @Frequency 1e+6 Hz	IEC 60250
Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	84.6 $\mu\text{m}/\text{m}^{\circ}\text{C}$	47.0 $\mu\text{in}/\text{in}^{\circ}\text{F}$	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	110 $^{\circ}\text{C}$	230 $^{\circ}\text{F}$	Unannealed; ISO 75-2/A
	125 $^{\circ}\text{C}$	257 $^{\circ}\text{F}$	Annealed; ISO 75-2/A
Vicat Softening Point	110 $^{\circ}\text{C}$	230 $^{\circ}\text{F}$	ISO 306/B50
	125 $^{\circ}\text{C}$	257 $^{\circ}\text{F}$	ISO 306/A50
Flammability, UL94	HB @Thickness 1.52 mm	HB @Thickness 0.0600 in	