

Oxford Polymers PEI 10GF-Natural PEI, 10% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polyetherimide (PEI) , Polyetherimide (PEI), 10% Glass Fiber

Material Notes:

Product Description: Glass Fiber (10% Reinforced), Polyetherimide injection molding grade Processing and Delivery Form: Pellets and

Injection Molding Additives: Release AgentsSpecial Characteristics: Easy flowInformation provided by Oxford Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Oxford-Polymers-PEI-10GF-Natural-PEI-10-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ASTM D792
Water Absorption at Saturation	0.250 %	0.250 %	ASTM D570
Linear Mold Shrinkage, Flow	0.00500 cm/cm @Thickness 3.17 mm	0.00500 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	114 MPa	16600 psi	ASTM D638
Elongation at Break	5.80 %	5.80 %	ASTM D638
Flexural Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	4.48 GPa	650 ksi	ASTM D790
Izod Impact, Notched	0.587 J/cm @Thickness 3.17 mm	1.10 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	207 °C	405 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	343 °C	650 °F	
Middle Barrel Temperature	349 °C	660 °F	
Front Barrel Temperature	354 °C	670 °F	
Nozzle Temperature	357 °C	675 °F	
Melt Temperature	352 °C	665 °F	
Mold Temperature	135 °C	275 °F	

Processing Properties	Metric ^{°C}	English ^{°F}	Comments
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	

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