

Oxford Polymers PEI -20GF-Natural PEI, 20% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polyetherimide (PEI) , Polyetherimide (PEI), 20% Glass Fiber

Material Notes:

Product Description: Glass Fiber (20% Reinforced), Polyetherimide injection molding grade Processing and Delivery Form: Pellets and Injection MoldingAdditives: Release Agents Special Characteristics: Colors AvailableInformation provided by Oxford Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Oxford-Polymers-PEI-20GF-Natural-PEI-20-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ASTM D792
Water Absorption at Saturation	0.250 %	0.250 %	ASTM D570
Linear Mold Shrinkage, Flow	0.00400 cm/cm @Thickness 3.17 mm	0.00400 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	128.3 MPa	18610 psi	ASTM D638
Elongation at Break	2.50 %	2.50 %	ASTM D638
Flexural Strength	203 MPa	29500 psi	ASTM D790
Flexural Modulus	5.79 GPa	840 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Thickness 3.17 mm	1.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	204 °C	400 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	338 - 360 °C	640 - 680 °F	
Middle Barrel Temperature	338 - 366 °C	640 - 690 °F	
Front Barrel Temperature	343 - 371 °C	650 - 700 °F	
Nozzle Temperature	343 - 371 °C	650 - 700 °F	
Melt Temperature	349 - 371 °C	660 - 700 °F	
Mold Temperature	65.6 - 177 °C	150 - 350 °F	

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

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