

Oxford Polymers PEI 30GF-Natural PEI, 30% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polyetherimide (PEI) , Polyetherimide (PEI), 30% Glass Fiber

Material Notes:

Product Description: Glass Fiber (30% Reinforced), Polyetherimide injection molding grade Processing and Delivery Form: Pellets and Injection MoldingAdditives: Release Agents Special Characteristics: High heat deflectionInformation provided by Oxford Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Oxford-Polymers-PEI-30GF-Natural-PEI-30-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ASTM D792
Water Absorption at Saturation	0.220 %	0.220 %	ASTM D570
Linear Mold Shrinkage, Flow	0.00300 cm/cm @Thickness 3.17 mm	0.00300 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	138 MPa	20000 psi	ASTM D638
Elongation at Break	2.50 %	2.50 %	ASTM D638
Flexural Strength	193 MPa	28000 psi	ASTM D790
Flexural Modulus	6.89 GPa	1000 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm @Thickness 3.17 mm	1.50 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	332 - 360 °C	630 - 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	English	Comments
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	

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