

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

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Glass Fiber Filled

Material Notes:

Product Description: Glass Fiber (20% Reinforced), PEEK, Polyetheretherketone injection molding grade Processing and Delivery Form:

Pellets and Injection MoldingAdditives: Glass fiber Special Characteristics: Autoclavable, dimensional stability, high temp

resistantInformation provided by Oxford Polymers

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ASTM D792
Water Absorption at Saturation	0.250 %	0.250 %	ASTM D570
Linear Mold Shrinkage, Flow	0.00550 cm/cm @Thickness 3.17 mm	0.00550 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	159 MPa	23000 psi	ASTM D638
Elongation at Break	3.80 %	3.80 %	ASTM D638
Flexural Strength	239 MPa	34600 psi	ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D790
Izod Impact, Notched	1.49 J/cm @Thickness 3.17 mm	2.80 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	343 °C	650 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	360 °C	680 °F	
Middle Barrel Temperature	371 °C	700 °F	
Front Barrel Temperature	374 °C	705 °F	
Nozzle Temperature	379 °C	715 °F	
Melt Temperature	363 °C	685 °F	

Mold Temperature Processing Properties	177 °C Metric	350 °F English	Comments
Drying Temperature	<= 149 °C	<= 300 °F	
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	

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