

Oxford Polymers 20GF 20% Glass Fiber Filled Polyetherimide for Extrusion and Injection Molding

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

Material Notes:

20% Glass Fiber Filled Polyetherimide for Extrusion and Injection Molding Information provided by Oxford Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Oxford-Polymers-20GF-20-Glass-Fiber-Filled-Polyetherimide-for-Extrusion-and-Injection-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792
Filler Content	20 %	20 %	
Water Absorption	0.19 %	0.19 %	ASTM D570
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	132 MPa	19100 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Tensile Modulus	6.72 GPa	975 ksi	ASTM D638
Flexural Strength	207 MPa	30000 psi	ASTM D790
Flexural Modulus	5.69 GPa	825 ksi	ASTM D790
Izod Impact, Notched	0.747 J/cm @Temperature 23.0 °C	1.40 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	208 °C	406 °F	ASTM D648

Processing Properties	Metric	English	Comments
Processing Temperature	382 °C	720 °F	

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