

Oxford Polymers 10GF 10% Glass Fiber Filled Polyetherimide for Extrusion and Injection Molding

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

Material Notes:

10% 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-10GF-10-Glass-Fiber-Filled-Polyetherimide-for-Extrusion-and-Injection-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Filler Content	10 %	10 %	
Water Absorption	0.22 %	0.22 %	ASTM D570
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	114 MPa	16600 psi	ASTM D638
Elongation at Break	2.8 %	2.8 %	ASTM D638
Tensile Modulus	5.86 GPa	850 ksi	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 @Temperature 23.0 °C	1.10 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	209 °C	408 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	207 °C	405 °F	ASTM D648

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

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