

Oxford Polymers PP-Homopolymer-20GF-Natural PP, 20% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% Glass Fiber Filler

Material Notes:

Product Description: Glass Fiber (20% Reinforced), Polypropylene injection molding grade Processing and Delivery Form: Pellets and Injection Molding Special Characteristics: Improved stiffness Information provided by Oxford Polymers

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ASTM D792
Water Absorption at Saturation	0.0300 %	0.0300 %	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	51.7 MPa	7500 psi	ASTM D638
Elongation at Break	3.00 %	3.00 %	ASTM D638
Flexural Strength	44.8 MPa	6500 psi	ASTM D790
Flexural Modulus	1.90 GPa	275 ksi	ASTM D790
Izod Impact, Notched	0.587 J/cm @Thickness 3.17 mm	1.10 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	129 °C	265 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	227 °C	440 °F	
Middle Barrel Temperature	238 °C	460 °F	
Front Barrel Temperature	241 °C	465 °F	
Nozzle Temperature	238 °C	460 °F	
Melt Temperature	241 °C	465 °F	

Mold Temperature Processing Properties	32.2 - 48.9 °C Metric	90.0 - 120 °F English	Comments
Drying Temperature	76.7 °C	170 °F	
Dry Time	1.00 - 2.00 hour	1.00 - 2.00 hour	

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