

Oxford Polymers PEEK-20CF-Black PEEK, 20% Carbon Fiber Reinforced

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

Material Notes:

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

Pellets and Injection Molding Additives: Carbon fiber Special Characteristics: High strength, Chemically resistant, High temp resistance Information provided by Oxford Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Oxford-Polymers-PEEK-20CF-Black-PEEK-20-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D792
Water Absorption at Saturation	0.250 %	0.250 %	ASTM D570
Linear Mold Shrinkage, Flow	0.00200 cm/cm @Thickness 3.17 mm	0.00200 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	238 MPa	34500 psi	ASTM D638
Elongation at Break	2.00 %	2.00 %	ASTM D638
Flexural Strength	338 MPa	49000 psi	ASTM D790
Flexural Modulus	19.48 GPa	2825 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Thickness 3.17 mm	2.00 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	343 - 360 °C	650 - 680 °F	
Middle Barrel Temperature	349 - 366 °C	660 - 690 °F	
Front Barrel Temperature	354 - 377 °C	670 - 710 °F	
Nozzle Temperature	357 - 382 °C	675 - 720 °F	
Melt Temperature	354 - 371 °C	670 - 700 °F	

Mold Temperature Processing Properties	177 - 199 °C Metric	350 - 390 °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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