Oxford Polymers PC 30CF-925 Black PC, 30% Carbon Fiber Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Carbon Fiber Reinforced

Material Notes:

Product Description: Glass Fiber (30% Reinforced), PBT injection molding grade Processing and Delivery Form: Pellets and Injection MoldingAdditives: Release Agents Special Characteristics: High Strength, electrically and thermally conductiveInformation provided by Oxford Polymers

Order this product through the following link:
http://www.lookpolymers.com/polymer_Oxford-Polymers-PC-30CF-925-Black-PC-30-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in³	ASTM D792
Water Absorption at Saturation	0.120 %	0.120 %	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	152 MPa	22100 psi	ASTM D638
Elongation at Break	2.00 %	2.00 %	ASTM D638
Flexural Strength	245 MPa	35500 psi	ASTM D790
Flexural Modulus	13.8 GPa	2000 ksi	ASTM D790
Izod Impact, Notched	0.828 J/cm @Thickness 3.17 mm	1.55 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	149 °C	300 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	302 - 316 °C	575 - 600 °F	
Middle Barrel Temperature	316 - 332 °C	600 - 630 °F	
Front Barrel Temperature	310 - 327 °C	590 - 620 °F	
Nozzle Temperature	310 - 327 °C	590 - 620 °F	
Melt Temperature	304 - 327 °C	580 - 620 °F	

Processing Properties	Metric	English	Comments
Mold Temperature	71.1 - 87.8 °C	160 - 190 °F	
Drying Temperature	121 °C	250 °F	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	

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