

Oxford Polymers Polysulfone PSF P170-64170 White PSU

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

Product Description: Polysulfone injection molding grade, precolored white Processing and Delivery Form: Pellets and Injection Molding

Special Characteristics: Continuous use up to 300(f)Information provided by Oxford Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Oxford-Polymers-Polysulfone-PSF-P170-64170-White-PSU.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ASTM D792
Water Absorption at Saturation	0.300 %	0.300 %	ASTM D570
Linear Mold Shrinkage, Flow	0.00700 cm/cm @Thickness 3.17 mm	0.00700 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	69.29 MPa	10050 psi	ASTM D638
Elongation at Break	50.0 - 100 %	50.0 - 100 %	ASTM D638
Flexural Strength	103 MPa	15000 psi	ASTM D790
Flexural Modulus	2.83 GPa	410 ksi	ASTM D790
Izod Impact, Notched	0.641 J/cm @Thickness 3.17 mm	1.20 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	174 °C	345 °F	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	321 - 343 °C	610 - 650 °F	
Middle Barrel Temperature	329 - 354 °C	625 - 670 °F	
Front Barrel Temperature	335 - 360 °C	635 - 680 °F	
Nozzle Temperature	335 - 360 °C	635 - 680 °F	
Melt Temperature	332 - 349 °C	630 - 660 °F	
Mold Temperature	104 - 138 °C	220 - 280 °F	

Processing Properties	Metric	English	Comments
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

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