

Eurostar Starflam PF0047E PA6, 20% Glass Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled

Material Notes:

Starflam PF0047E is a Halogen Free and Red Phosphorous Free, Flame Retardant, Glass Fiber Reinforced, Polyamide 6 Injection Molding Resin (also known as EXCP4009) Information provided by Polymer Technology & Services, the North American exclusive supplier.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starflam-PF0047E-PA6-20-Glass-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Thickness 4.00 mm	0.0020 - 0.0040 in/in @Thickness 0.157 in	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	ISO 527
Elongation at Break	3.5 %	3.5 %	ISO 527
Tensile Modulus	7.50 GPa	1090 ksi	1 mm/min; ISO 527
Flexural Strength	190 MPa	27600 psi	ISO 178
Flexural Modulus	7.00 GPa	1020 ksi	ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	195 °C	383 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	240 - 250 °C	464 - 482 °F	Zone 1
Middle Barrel Temperature	250 - 260 °C	482 - 500 °F	Zone 2
Front Barrel Temperature	250 - 270 °C	482 - 518 °F	Zone 3
Melt Temperature	250 - 270 °C	482 - 518 °F	
Mold Temperature	50.0 - 90.0 °C	122 - 194 °F	
Drying Temperature	80.0 °C	176 °F	

Processing Properties	Metric	English	Comments
Moisture Content	0.20 %	0.20 %	

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