

Eurostar Starflam AFR450B1 PA66, Glass Fiber Reinforced, Flame Retardant, Injection Molding

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Fiber Filled, Flame Retardant

Material Notes:

Starflam AFR450B1 is a Flame Retardant, Glass Fiber Reinforced Polyamide 66, Injection Molding Resin. Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starflam-AFR450B1-PA66-Glass-Fiber-Reinforced-Flame-Retardant-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	ISO 1183
Water Absorption at Saturation	4.5 % @Temperature 23.0 °C	4.5 % @Temperature 73.4 °F	ISO 62-1
Linear Mold Shrinkage, Flow	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	on Tensile Bar; E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	150 MPa	21800 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	9.10 GPa	1320 ksi	1 mm/min; ISO 527
Flexural Strength	215 MPa	31200 psi	2 mm/min; ISO 178
Flexural Modulus	8.90 GPa	1290 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ² @Temperature -20.0 °C	2.86 ft-lb/in ² @Temperature -4.00 °F	80x10x4; ISO 180/1A
	7.00 kJ/m ² @Temperature 23.0 °C	3.33 ft-lb/in ² @Temperature 73.4 °F	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	60.0 kJ/m ²	28.6 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	30.0 µm/m-°C @Temperature 23.0 - 60.0 °C	16.7 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	90.0 µm/m-°C @Temperature 23.0 - 60.0 °C	50.0 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)			Edgew 120x10x4, sp=100 mm; ISO 75/Ae
Deflection Temperature at 1.8 MPa (264 psi)	240 °C	464 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Ae
Vicat Softening Point	255 °C	491 °F	B/120; ISO 306
Flammability, UL94	V-0	V-0	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
Glow Wire Test	960 °C	1760 °F	IEC 60695-2-12
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	375 V	375 V	IEC 60112

Processing Properties	Metric	English	Comments
Zone 1	260 - 270 °C	500 - 518 °F	
Zone 2	270 - 280 °C	518 - 536 °F	
Zone 3	270 - 285 °C	518 - 545 °F	
Melt Temperature	270 - 285 °C	518 - 545 °F	
Mold Temperature	60.0 - 90.0 °C	140 - 194 °F	
Drying Temperature	75.0 - 85.0 °C	167 - 185 °F	
	@Time 14400 - 21600 sec	@Time 4.00 - 6.00 hour	
Moisture Content	0.20 %	0.20 %	

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