

Eurostar Starflam BFR460B1 PA6, Glass Fiber Filled, Flame Retardant, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass Fiber Filled, Flame Retardant

Material Notes:

Starflam BFR460B1 is a Flame Retardant, Glass Fiber Reinforced Polyamide 6, Injection Molding Resin Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starflam-BFR460B1-PA6-Glass-Fiber-Filled-Flame-Retardant-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ISO 1183
Water Absorption at Saturation	4.0 % @Temperature 23.0 °C	4.0 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage, Flow	0.0015 - 0.0030 cm/cm	0.0015 - 0.0030 in/in	on Tensile Bar; E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	145 MPa	21000 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	9.00 GPa	1310 ksi	1 mm/min; ISO 527
Izod Impact, Notched (ISO)	8.00 kJ/m ² @Temperature -40.0 °C	3.81 ft-lb/in ² @Temperature -40.0 °F	80x10x4; ISO 180/1A
	9.00 kJ/m ² @Temperature -20.0 °C	4.28 ft-lb/in ² @Temperature -4.00 °F	80x10x4; ISO 180/1A
	10.0 kJ/m ² @Temperature 23.0 °C	4.76 ft-lb/in ² @Temperature 73.4 °F	80x10x4; ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 μm/m-°C @Temperature 23.0 - 60.0 °C	10.0 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
Deflection Temperature at 0.46 MPa (66 psi)	217 °C	423 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Be

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	202 °C Metric	396 °F English	Edgew 120x10x4, sp=100 mm; ISO 19/100 Comments
Vicat Softening Point	212 °C	414 °F	B/120; ISO 306
UL RTI, Electrical	65.0 °C	149 °F	
UL RTI, Mechanical with Impact	65.0 °C	149 °F	
UL RTI, Mechanical without Impact	65.0 °C	149 °F	
Flammability, UL94	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	
Glow Wire Test	800 °C @Thickness 1.00 mm	1470 °F @Thickness 0.0394 in	Ignitability; IEC 60695-2-13
	825 °C @Thickness 2.00 mm	1520 °F @Thickness 0.0787 in	Ignitability; IEC 60695-2-13
	875 °C @Thickness 3.00 mm	1610 °F @Thickness 0.118 in	Ignitability; IEC 60695-2-13
	960 °C @Thickness 1.00 mm	1760 °F @Thickness 0.0394 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	400 V	400 V	IEC 60112

Processing Properties	Metric	English	Comments
Zone 1	240 - 250 °C	464 - 482 °F	
Zone 2	250 - 260 °C	482 - 500 °F	
Zone 3	250 - 270 °C	482 - 518 °F	
Melt Temperature	250 - 270 °C	482 - 518 °F	
Mold Temperature	50.0 - 90.0 °C	122 - 194 °F	
Drying Temperature	80.0 °C @Time 14400 sec	176 °F @Time 4.00 hour	
Moisture Content	0.20 %	0.20 %	

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