

Eurostar Starflam RF0052E PA66/6, Glass Fiber Filled, Flame Retardant, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66

Material Notes:

Starflam RF0052E is a Flame Retardant, Halogen Free, Red Phosphorous Free, Glass Reinforced Polyamide 66/6 Injection Molding Resin Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starflam-RF0052E-PA666-Glass-Fiber-Filled-Flame-Retardant-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	on Tensile Bar; E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	120 MPa	17400 psi	5 mm/min; ISO 527
Elongation at Break	2.7 %	2.7 %	5 mm/min; ISO 527
Tensile Modulus	8.10 GPa	1170 ksi	1 mm/min; ISO 527
Flexural Yield Strength	185 MPa	26800 psi	2 mm/min; ISO 178
Flexural Modulus	6.70 GPa	972 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	80x10x4; ISO 179/1eA
Izod Impact, Unnotched (ISO)	40.0 kJ/m ²	19.0 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	36.0 µm/m-°C	20.0 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
CTE, linear, Transverse to Flow	109 µm/m-°C	60.6 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
Deflection Temperature at 0.46 MPa (66 psi)	251 °C	484 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af
Flammability, UL94	V-2	V-2	
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Thermal Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Zone 1	265 - 275 °C	509 - 527 °F	
Zone 2	265 - 275 °C	509 - 527 °F	
Zone 3	270 - 280 °C	518 - 536 °F	
Melt Temperature	270 - 280 °C	518 - 536 °F	
Mold Temperature	60.0 - 100 °C	140 - 212 °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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