

Eurostar Starflam RFK517E PA66, Glass/Mineral Fiber Reinforced, Flame Retardant, Injection Molding

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Glass/Mineral Reinforced

Material Notes:

Starflam RFK517E is a Halogen Free and Red Phosphorous Free, Flame Retardant, Mineral Filled, 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-RFK517E-PA66-GlassMineral-Fiber-Reinforced-Flame-Retardant-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 4.00 mm	0.0050 - 0.0070 in/in @Thickness 0.157 in	E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	68.0 MPa	9860 psi	5 mm/min; ISO 527
Elongation at Break	1.5 %	1.5 %	5 mm/min; ISO 527
Flexural Yield Strength	101 MPa	14600 psi	2 mm/min; ISO 178
Flexural Modulus	8.10 GPa	1170 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80x10x4; ISO 179/1eA
Izod Impact, Unnotched (ISO)	20.0 kJ/m ²	9.52 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	175 °C	347 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
Glow Wire Test	960 °C @Thickness 1.60 mm	1760 °F @Thickness 0.0630 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Zone 1	260 - 270 °C	500 - 518 °F	
Zone 2	265 - 275 °C	509 - 527 °F	
Zone 3	270 - 280 °C	518 - 536 °F	
Melt Temperature	265 - 275 °C	509 - 527 °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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