

Eurostar Starflam RF0077E PA66, 35% Glass Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Glass Fiber Filled

Material Notes:

Starflam RF0077E is a Halogen Free and Red Phosphorous Free, Flame Retardant, Glass Fiber Reinforced, Polyamide 66 Injection Molding Resin (also known as RF1007Z270) 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-RF0077E-PA66-35-Glass-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Thickness 4.00 mm	0.0010 - 0.0030 in/in @Thickness 0.157 in	ISO 294
Linear Mold Shrinkage, Transverse	0.0070 - 0.011 cm/cm	0.0070 - 0.011 in/in	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	155 MPa	22500 psi	5 mm/min; ISO 527
Elongation at Break	2.1 %	2.1 %	5 mm/min; ISO 527
Tensile Modulus	11.5 GPa	1670 ksi	1 mm/min; ISO 527
Flexural Strength	216 MPa	31300 psi	2 mm/min; ISO 178
Flexural Modulus	10.4 GPa	1510 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	55.0 kJ/m ²	26.2 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test	240 °C @Thickness 3.00 mm	464 °F @Thickness 0.118 in	IEC 60695-10-2
Deflection Temperature at 1.8 MPa (264 psi)	245 °C	473 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af
UL RTI, Electrical	140 °C @Thickness 0.800 mm	284 °F @Thickness 0.0315 in	
	140 °C @Thickness 1.50 mm	284 °F @Thickness 0.0591 in	
	140 °C	284 °F	

Thermal Properties	Metric @Thickness 3.00 mm	English @Thickness 0.118 in	Comments
UL RTI, Mechanical with Impact	110 °C	230 °F	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	110 °C	230 °F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	110 °C	230 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	140 °C	284 °F	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	140 °C	284 °F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	140 °C	284 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-0	V-0	IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	
Glow Wire Test	775 °C	1430 °F	Glow-Wire Ignition; IEC 60695-2-13
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	775 °C	1430 °F	Glow-Wire Ignition; IEC 60695-2-13
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	825 °C	1520 °F	Glow-Wire Ignition; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	
	960 °C	1760 °F	Glow-Wire Flammability; IEC 60695-2-12
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	960 °C	1760 °F	Glow-Wire Flammability; IEC 60695-2-12
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	960 °C	1760 °F	Glow-Wire Flammability; IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	

Thermal Properties	Metric	English	Comments
Electrical Properties			
	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	IEC 60112
	@Thickness 3.00 mm	@Thickness 0.118 in	
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	PLC 0
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	>= 120 sec	>= 120 sec	PLC 0
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	>= 120 sec	>= 120 sec	PLC 0
	@Thickness 3.00 mm	@Thickness 0.118 in	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	PLC 0
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	>= 120 arcs	>= 120 arcs	PLC 0
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	>= 120 arcs	>= 120 arcs	PLC 0
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	265 - 275 °C	509 - 527 °F	Zone 1
Middle Barrel Temperature	265 - 275 °C	509 - 527 °F	Zone 2
Front Barrel Temperature	270 - 280 °C	518 - 536 °F	Zone 3
Melt Temperature	270 - 280 °C	518 - 536 °F	
Mold Temperature	60.0 - 100 °C	140 - 212 °F	
Drying Temperature	80.0 °C	176 °F	
Dry Time	4.00 hour	4.00 hour	
Moisture Content	0.15 - 0.25 %	0.15 - 0.25 %	

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