

Eurostar Starflam RF0097P PA66/6, 45% Glass Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6 , 40% Glass Fiber Reinforced

Material Notes:

Starflam RF0097P is a Halogen Free and Red Phosphorous Free, Flame Retardant, Glass Fiber Reinforced, Polyamide 66/6 Injection Molding Resin (also known as RF1009Z270EM) 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-RF0097P-PA666-45-Glass-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 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

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	160 MPa	23200 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	12.5 GPa	1810 ksi	1 mm/min; ISO 527
Flexural Strength	255 MPa	37000 psi	2 mm/min; ISO 178
Flexural Modulus	12.5 GPa	1810 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	11.0 kJ/m ²	5.23 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	50.0 kJ/m ²	23.8 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test	220 °C @Thickness 3.00 mm	428 °F @Thickness 0.118 in	IEC 60695-10-2
Deflection Temperature at 1.8 MPa (264 psi)	235 °C	455 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af
UL RTI, Electrical	150 °C @Thickness 0.800 mm	302 °F @Thickness 0.0315 in	ALL
	150 °C @Thickness 1.50 mm	302 °F @Thickness 0.0591 in	ALL
	150 °C	302 °F	ALL

Thermal Properties	@Thickness 3.00 mm Metric	@Thickness 0.118 in English	Comments
	150 °C	302 °F	BK
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	150 °C	302 °F	BK
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical with Impact	110 °C	230 °F	ALL
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	110 °C	230 °F	ALL
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	110 °C	230 °F	ALL
	@Thickness 3.00 mm	@Thickness 0.118 in	
	110 °C	230 °F	BK
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	110 °C	230 °F	BK
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	150 °C	302 °F	ALL
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	150 °C	302 °F	ALL
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	150 °C	302 °F	ALL
	@Thickness 3.00 mm	@Thickness 0.118 in	
	150 °C	302 °F	BK
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	150 °C	302 °F	BK
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-0	V-0	ALL; IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-0	V-0	ALL; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	ALL; IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	

Thermal Properties	V-0 - 5VB Metric	V-0 - 5VB English	Comments BK; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0 - 5VB	V-0 - 5VB	BK; IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	
Glow Wire Test	800 °C	1470 °F	ALL, Glow-Wire Ignition; IEC 60695-2-13
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	825 °C	1520 °F	ALL, Glow-Wire Ignition; IEC 60695-2-13
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	825 °C	1520 °F	ALL, Glow-Wire Ignition; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	
	825 °C	1520 °F	BK, Glow-Wire Flammability; IEC 60695-2-13
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	825 °C	1520 °F	BK, Glow-Wire Flammability; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	
	960 °C	1760 °F	ALL, Glow-Wire Flammability; IEC 60695-2-12
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	960 °C	1760 °F	ALL, Glow-Wire Flammability; IEC 60695-2-12
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	960 °C	1760 °F	ALL, Glow-Wire Flammability; IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	
	960 °C	1760 °F	BK, Glow-Wire Ignition; IEC 60695-2-12
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	960 °C	1760 °F	BK, Glow-Wire Ignition; IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	

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	All colors; PLC 0
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	>= 120 sec	>= 120 sec	All colors; PLC 0

Electrical Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
	>= 120 sec	>= 120 sec	All colors; PLC 0
	@Thickness 3.00 mm	@Thickness 0.118 in	
	>= 120 sec	>= 120 sec	BK; PLC 0
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	>= 120 sec	>= 120 sec	BK; PLC 0
	@Thickness 3.00 mm	@Thickness 0.118 in	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	All colors; PLC 0
	@Thickness 3.00 mm	@Thickness 0.118 in	
	>= 120 arcs	>= 120 arcs	BK; PLC 0
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	>= 120 arcs	>= 120 arcs	BK; PLC 0
	@Thickness 3.00 mm	@Thickness 0.118 in	
	>= 120 arcs	>= 120 arcs	All colors; PLC 0
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	>= 120 arcs	>= 120 arcs	All colors; PLC 0
	@Thickness 1.50 mm	@Thickness 0.0591 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	0.20 %	0.20 %	

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