

## Eurostar Starflam PF0057E PA6, 25% Glass Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Glass Fiber Filled

### Material Notes:

Halogen Free and Red Phosphorous Free, Flame Retardant, Glass Fiber Reinforced, Polyamide 6 Injection Molding Resin (also known as PF-1005 Z270) 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-PF0057E-PA6-25-Glass-Filled-Injection-Molded.php](http://www.lookpolymers.com/polymer_Eurostar-Starflam-PF0057E-PA6-25-Glass-Filled-Injection-Molded.php)

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Time 86400 sec	0.0010 - 0.0030 in/in @Time 24.0 hour	ISO 294
Linear Mold Shrinkage, Transverse	0.0090 - 0.013 cm/cm @Time 86400 sec	0.0090 - 0.013 in/in @Time 24.0 hour	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	145 MPa	21000 psi	ISO 527
Elongation at Break	3.0 %	3.0 %	ISO 527
Tensile Modulus	9.50 GPa	1380 ksi	1 mm/min; ISO 527
Flexural Strength	210 MPa	30500 psi	ISO 178
Flexural Modulus	8.00 GPa	1160 ksi	ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	54.0 kJ/m <sup>2</sup>	25.7 ft-lb/in <sup>2</sup>	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft <sup>2</sup> -°F	ISO 8302
Hot Ball Pressure Test	200 °C @Thickness 3.00 mm	392 °F @Thickness 0.118 in	IEC 60695-10-2
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °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	284 °F	

Thermal Properties	Metric @Thickness 1.60 mm	English @Thickness 0.0630 in	Comments
	140 °C	284 °F	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	140 °C	284 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical with Impact	105 °C	221 °F	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	105 °C	221 °F	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	105 °C	221 °F	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	105 °C	221 °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 1.60 mm	@Thickness 0.0630 in	
	140 °C	284 °F	
	@Thickness 1.60 mm	@Thickness 0.0630 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 - 5VB	V-0 - 5VB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0 - 5VA	V-0 - 5VA	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0 - 5VA	V-0 - 5VA	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	

Thermal Properties	Metric	English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	Glow-Wire Ignition; IEC 60695-2-13
	775 °C	1430 °F	Glow-Wire Ignition; IEC 60695-2-13
	@Thickness 1.60 mm	@Thickness 0.0630 in	Glow-Wire Ignition; IEC 60695-2-13
	800 °C	1470 °F	Glow-Wire Ignition; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	Glow-Wire Ignition; IEC 60695-2-13
	960 °C	1760 °F	Glow-Wire Flammability; IEC 60695-2-12
	@Thickness 0.800 mm	@Thickness 0.0315 in	Glow-Wire Flammability; IEC 60695-2-12
	960 °C	1760 °F	Glow-Wire Flammability; IEC 60695-2-12
	@Thickness 1.60 mm	@Thickness 0.0630 in	Glow-Wire Flammability; IEC 60695-2-12
	960 °C	1760 °F	Glow-Wire Flammability; IEC 60695-2-12
	@Thickness 1.60 mm	@Thickness 0.0630 in	Glow-Wire Flammability; IEC 60695-2-12
	960 °C	1760 °F	Glow-Wire Flammability; IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 in	Glow-Wire Flammability; IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	IEC 60112
Hot Wire Ignition, HWI	>= 120 sec	>= 120 sec	PLC 0
	@Thickness 0.800 mm	@Thickness 0.0315 in	PLC 0
	>= 120 sec	>= 120 sec	PLC 0
	@Thickness 1.50 mm	@Thickness 0.0591 in	PLC 0
	>= 120 sec	>= 120 sec	PLC 0
	@Thickness 1.60 mm	@Thickness 0.0630 in	PLC 0
	>= 120 sec	>= 120 sec	PLC 0
	@Thickness 3.00 mm	@Thickness 0.118 in	PLC 0
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	PLC 0
	@Thickness 0.800 mm	@Thickness 0.0315 in	PLC 0
	>= 120 arcs	>= 120 arcs	PLC 0
	@Thickness 1.50 mm	@Thickness 0.0591 in	PLC 0
	>= 120 arcs	>= 120 arcs	PLC 0
	@Thickness 1.60 mm	@Thickness 0.0630 in	PLC 0

Electrical Properties	Metric <small>arcs</small>	English <small>arcs</small>	Comments
	@Thickness 3.00 mm	@Thickness 0.118 in	PLC 8

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

Descriptive Properties	Value	Comments
UL f1	f1	

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