

Eurostar Starflam PZ0042E PA6, 20% Glass Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled

Material Notes:

PZ0042E is a Halogen Free and Red Phosphorous Free, Flame Retardant, Glass Reinforced, Polyamide 6 Injection Molding (also known as PF1004Z222 or PA620GFU9Z22) 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-PZ0042E-PA6-20-Glass-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	95.0 MPa	13800 psi	5 mm/min; ISO 527
Elongation at Break	3.2 %	3.2 %	5 mm/min; ISO 527
Tensile Modulus	6.20 GPa	899 ksi	1 mm/min; ISO 527
Flexural Strength	160 MPa	23200 psi	2 mm/min; ISO 178
Flexural Modulus	6.15 GPa	892 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80x10x4; ISO 180/1U
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	Edgew 80x10x4; ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	Edgew 80x10x4; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	185 °C	365 °F	Edgew 80x10x4, sp=64 mm; ISO 75/Af
Vicat Softening Point	209 °C	408 °F	B/50; ISO 306
UL RTI, Electrical	125 °C	257 °F	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	125 °C	257 °F	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	125 °C	257 °F	

Thermal Properties	@Thickness 1.00 mm Metric	@Thickness 0.0394 in English	Comments
	125 °C	257 °F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	125 °C	257 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical with Impact	125 °C	257 °F	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	125 °C	257 °F	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	125 °C	257 °F	
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	125 °C	257 °F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	125 °C	257 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	130 °C	266 °F	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	130 °C	266 °F	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	130 °C	266 °F	
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	130 °C	266 °F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	140 °C	284 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-2	V-2	IEC 60695-11-10
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	V-2	V-2	IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-2	V-2	IEC 60695-11-10
	@Thickness 1.00 mm	@Thickness 0.0394 in	

Thermal Properties	^{V-2} Metric	^{V-2} English	Comments IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-2 @Thickness 3.00 mm	V-2 @Thickness 0.118 in	IEC 60695-11-10
Glow Wire Test	725 °C @Thickness 1.00 mm	1340 °F @Thickness 0.0394 in	Glow-Wire Ignition; IEC 60695-2-13
	960 °C @Thickness 1.00 mm	1760 °F @Thickness 0.0394 in	Glow-Wire Flammability; IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	500 V	500 V	IEC 60112
Hot Wire Ignition, HWI	15 - 30 sec @Thickness 0.750 mm	15 - 30 sec @Thickness 0.0295 in	PLC 3
	>= 120 sec @Thickness 0.800 mm	>= 120 sec @Thickness 0.0315 in	PLC 0
	>= 120 sec @Thickness 1.00 mm	>= 120 sec @Thickness 0.0394 in	PLC 0
	>= 120 sec @Thickness 1.50 mm	>= 120 sec @Thickness 0.0591 in	PLC 0
	>= 120 sec @Thickness 3.00 mm	>= 120 sec @Thickness 0.118 in	PLC 0
High Amp Arc Ignition, HAI	>= 120 arcs @Thickness 0.750 mm	>= 120 arcs @Thickness 0.0295 in	PLC 0
	>= 120 arcs @Thickness 0.800 mm	>= 120 arcs @Thickness 0.0315 in	PLC 0
	>= 120 arcs @Thickness 1.00 mm	>= 120 arcs @Thickness 0.0394 in	PLC 0
	>= 120 arcs @Thickness 1.50 mm	>= 120 arcs @Thickness 0.0591 in	PLC 0
	>= 120 arcs @Thickness 3.00 mm	>= 120 arcs @Thickness 0.118 in	PLC 0

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 %	

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