

Eurostar Starflam PZ0052E PA6, 25% Glass Filled, Injection Molded

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

Material Notes:

PZ0052E is a Halogen Free and Red Phosphorous Free, Flame Retardant, Glass Reinforced, Polyamide 6 Injection Molding (also known as PF1005Z222 or PA625GFU22) 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-PZ0052E-PA6-25-Glass-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D792
Moisture Absorption	1.05 % @Temperature 23.0 °C	1.05 % @Temperature 73.4 °F	50% RH; ASMT D570
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm @Time 86400 sec	0.0040 - 0.0060 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	82.0 MPa	11900 psi	ISO 527
	103 MPa	14900 psi	ASTM D638
Elongation at Break	2.3 %	2.3 %	ASTM D638
	2.5 %	2.5 %	ISO 527
Tensile Modulus	6.10 GPa	885 ksi	1 mm/min; ISO 527
	7.44 GPa	1080 ksi	50 mm/min; ASTM D638
Flexural Strength	120 MPa	17400 psi	ISO 178
	144 MPa	20900 psi	ASTM D790
Flexural Modulus	5.20 GPa	754 ksi	ISO 178
	7.10 GPa	1030 ksi	ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	25.0 kJ/m ²	11.9 ft-lb/in ²	80x10x4; ISO 180/1U
Impact Test	8.00 J	5.90 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
	8.00 J	5.90 ft-lb	Multiaxial; ISO 6603

Mechanical Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	32.4 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	18.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ASTM E831
	@Temperature -40.0 - 40.0 $^\circ\text{C}$	@Temperature -40.0 - 104 $^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	215 $^\circ\text{C}$	419 $^\circ\text{F}$	unannealed; ASMT D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
Deflection Temperature at 1.8 MPa (264 psi)	137 $^\circ\text{C}$	279 $^\circ\text{F}$	Flatw 80x10x4, sp=64 mm; ISO 75/Af
	204 $^\circ\text{C}$	399 $^\circ\text{F}$	
UL RTI, Electrical	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASMT D648
	125 $^\circ\text{C}$	257 $^\circ\text{F}$	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	125 $^\circ\text{C}$	257 $^\circ\text{F}$	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	125 $^\circ\text{C}$	257 $^\circ\text{F}$	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	125 $^\circ\text{C}$	257 $^\circ\text{F}$	
UL RTI, Mechanical with Impact	@Thickness 0.750 mm	@Thickness 0.0295 in	
	125 $^\circ\text{C}$	257 $^\circ\text{F}$	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	125 $^\circ\text{C}$	257 $^\circ\text{F}$	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	125 $^\circ\text{C}$	257 $^\circ\text{F}$	
UL RTI, Mechanical without Impact	@Thickness 0.750 mm	@Thickness 0.0295 in	
	130 $^\circ\text{C}$	266 $^\circ\text{F}$	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	130 $^\circ\text{C}$	266 $^\circ\text{F}$	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	140 $^\circ\text{C}$	284 $^\circ\text{F}$	
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

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
	V-2	V-2	IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	
Oxygen Index	>= 20 %	>= 20 %	ISO 4589
Glow Wire Test	960 °C	1760 °F	IEC 60695-2-12
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	400 - 600 V	400 - 600 V	PLC 1
Hot Wire Ignition, HWI	30 - 60 sec	30 - 60 sec	PLC 2
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	30 - 60 sec	30 - 60 sec	PLC 2
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	30 - 60 sec	30 - 60 sec	PLC 2
	@Thickness 3.00 mm	@Thickness 0.118 in	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	PLC 0
	@Thickness 0.750 mm	@Thickness 0.0295 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	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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