

Eurostar Starflam P10002E PA6, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced, Flame Retardant

Material Notes:

Starflam P10002E is a Unfilled, Halogen Free and Red Phosphorous Free, Flame Retardant, Polyamide 6 Injection Molding Resin (also known as P1000Z220 or PA6 U2 Z22) 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-P10002E-PA6-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0080 - 0.015 cm/cm @Time 86400 sec	0.0080 - 0.015 in/in @Time 24.0 hour	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Tensile Modulus	3.40 GPa	493 ksi	1 mm/min; ISO 527
Flexural Strength	105 MPa	15200 psi	ISO 178
Flexural Modulus	3.50 GPa	508 ksi	ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	60.0 kJ/m ²	28.6 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	200 °C	392 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	80.0 °C	176 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af
UL RTI, Electrical	120 °C @Thickness 0.750 mm	248 °F @Thickness 0.0295 in	
	120 °C @Thickness 1.50 mm	248 °F @Thickness 0.0591 in	
	120 °C @Thickness 3.00 mm	248 °F @Thickness 0.118 in	

Thermal Properties with Impact	65.0 °C Metric	149 °F English	Comments
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	75.0 °C	167 °F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	75.0 °C	167 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	85.0 °C	185 °F	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	85.0 °C	185 °F	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	85.0 °C	185 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-0	V-0	IEC 60695-11-10
	@Thickness 0.750 mm	@Thickness 0.0295 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	725 °C	1340 °F	Glow-Wire Ignition; IEC 60695-2-13
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	960 °C	1760 °F	Glow-Wire Flammability; IEC 60695-2-12
	@Thickness 0.750 mm	@Thickness 0.0295 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	>= 600 V	>= 600 V	PLC 0
Hot Wire Ignition, HWI	7.0 - 15 sec	7.0 - 15 sec	PLC 4
	@Thickness 0.750 mm	@Thickness 0.0295 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	

Electrical Properties	>= 120 arcs Metric	>= 120 arcs English	Comments
	@Thickness 3.00 mm	@Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 240 °C	446 - 464 °F	Zone 1
Middle Barrel Temperature	235 - 245 °C	455 - 473 °F	Zone 2
Front Barrel Temperature	240 - 260 °C	464 - 500 °F	Zone 3
Melt Temperature	240 - 260 °C	464 - 500 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	75.0 - 85.0 °C	167 - 185 °F	
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	
Moisture Content	0.20 %	0.20 %	

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