

Eurostar Starflam R10002E PA66/6, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6, Unreinforced

Material Notes:

Starflam R10002E is a Unfilled, Halogen Free and Red Phosphorous Free, Flame Retardant, Polyamide 66/Polyamide 6 Injection Molding Resin (also known as R1000Z220EM) 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-R10002E-PA666-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	0.0080 - 0.015 in/in	on Tensile Bar; 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	65.0 °C	149 °F	
	@Thickness 0.400 mm	@Thickness 0.0157 in	
	120 °C	248 °F	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	120 °C	248 °F	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	120 °C	248 °F	

Thermal Properties	@Thickness 3.00 mm Metric	@Thickness 0.118 in English	Comments
UL RTI, Mechanical with Impact	65.0 °C	149 °F	
	@Thickness 0.400 mm	@Thickness 0.0157 in	
	65.0 °C	149 °F	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
UL RTI, Mechanical without Impact	75.0 °C	167 °F	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	75.0 °C	167 °F	
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	65.0 °C	149 °F	
	@Thickness 0.400 mm	@Thickness 0.0157 in	
	85.0 °C	185 °F	
	@Thickness 0.800 mm	@Thickness 0.0315 in	
Flammability, UL94	85.0 °C	185 °F	
	@Thickness 1.60 mm	@Thickness 0.0630 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 0.400 mm	@Thickness 0.0157 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	
Flammability, UL94	V-0	V-0	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	>= 600 V	>= 600 V	PLC 0
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	PLC 3
	@Thickness 0.800 mm	@Thickness 0.0315 in	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	PLC 0

Electrical Properties	@Thickness 0.800 mm Metric	@Thickness 0.0315 in English	Comments
Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 270 °C	500 - 518 °F	Zone 1
Middle Barrel Temperature	265 - 280 °C	509 - 536 °F	Zone 2
Front Barrel Temperature	265 - 280 °C	509 - 536 °F	Zone 3
Melt Temperature	265 - 280 °C	509 - 536 °F	
Mold Temperature	60.0 - 90.0 °C	140 - 194 °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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