

Eurostar Starflam PX05004 PA66, Glass Fiber Filled, Flame Retardant, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Fiber Filled, Flame Retardant

Material Notes:

Starflam PX05004 is a Halogen Free and Red Phosphorous Free, Flame Retardant, Glass Reinforced, Polyamide 66 Injection Molding Resin. Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starflam-PX05004-PA66-Glass-Fiber-Filled-Flame-Retardant-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm @Thickness 4.00 mm	0.0040 - 0.0060 in/in @Thickness 0.157 in	E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	84.0 MPa	12200 psi	5 mm/min; ISO 527
Elongation at Break	2.2 %	2.2 %	5 mm/min; ISO 527
Tensile Modulus	5.70 GPa	827 ksi	1 mm/min; ISO 527
Flexural Yield Strength	147 MPa	21300 psi	2 mm/min; ISO 178
Flexural Modulus	5.30 GPa	769 ksi	2 mm/min; 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)	30.0 kJ/m ²	14.3 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	185 °C	365 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Bf
Flammability, UL94	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	
Glow Wire Test	960 °C @Thickness 0.800 mm	1760 °F @Thickness 0.0315 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	>= 500 V	>= 500 V	IEC 60112

Processing Properties	Metric	English	Comments
Zone 1	255 - 265 °C	491 - 509 °F	
Zone 2	260 - 270 °C	500 - 518 °F	
Zone 3	260 - 270 °C	500 - 518 °F	
Melt Temperature	265 - 275 °C	509 - 527 °F	
Mold Temperature	55.0 - 95.0 °C	131 - 203 °F	
Drying Temperature	80.0 °C @Time 14400 sec	176 °F @Time 4.00 hour	
Moisture Content	0.20 %	0.20 %	

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