

Eurostar Starflam P10002Z PA6, Flame Retardant, Extrusion

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

Material Notes:

Starflam P10002Z is an Unfilled, Halogen Free, Red Phosphorous Free, Flame Retardant, Polyamide 6 Extrusion Resin. Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starflam-P10002Z-PA6-Flame-Retardant-Extrusion.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.010 cm/cm @Thickness 4.00 mm	0.010 in/in @Thickness 0.157 in	E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	78.0 MPa	11300 psi	50 mm/min; ISO 527
Elongation at Break	5.6 %	5.6 %	50 mm/min; ISO 527
Elongation at Yield	3.7 %	3.7 %	50 mm/min; ISO 527
Tensile Modulus	3.40 GPa	493 ksi	1 mm/min; ISO 527
Flexural Yield Strength	105 MPa	15200 psi	2 mm/min; ISO 178
Flexural Modulus	3.10 GPa	450 ksi	2 mm/min; ISO 178

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	75.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 23.0 - 60.0 $^\circ\text{C}$	41.7 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 73.4 - 140 $^\circ\text{F}$	ISO 11359-2
CTE, linear, Transverse to Flow	80.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature 23.0 - 60.0 $^\circ\text{C}$	44.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature 73.4 - 140 $^\circ\text{F}$	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	190 $^\circ\text{C}$	374 $^\circ\text{F}$	Flatw 80x10x4, sp=64 mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	75.0 $^\circ\text{C}$	167 $^\circ\text{F}$	Flatw 80x10x4, sp=64 mm; ISO 75/Af
Oxygen Index	32 %	32 %	ISO 4589
Glow Wire Test	960 $^\circ\text{C}$ @Thickness 0.750 mm	1760 $^\circ\text{F}$ @Thickness 0.0295 in	IEC 60695-2-12

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Zone 1	230 - 240 °C	446 - 464 °F	
Zone 2	235 - 245 °C	455 - 473 °F	
Zone 3	240 - 260 °C	464 - 500 °F	
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 @Time 14400 - 21600 sec	167 - 185 °F @Time 4.00 - 6.00 hour	
Moisture Content	0.20 %	0.20 %	

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