

Eurostar Starflam P10003 PA6, Mineral Filled, Flame Retardant, Extrusion

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Starflam P10003 is a Mineral Filled, Halogen Free, Red Phosphorous Free, Flame Retardant, Polyamide 6 Injection Molding

Resin Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starflam-P10003-PA6-Mineral-Filled-Flame-Retardant-Extrusion.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ISO 1183
Water Absorption	0.90 % @Temperature 23.0 °C, Time 86400 sec	0.90 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62-1
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	71.0 MPa	10300 psi	5 mm/min; ISO 527
Elongation at Break	2.7 %	2.7 %	5 mm/min; ISO 527
	4.5 %	4.5 %	Flexural, 2 mm/min; ISO 178
Tensile Modulus	6.70 GPa	972 ksi	1 mm/min; ISO 527
Flexural Yield Strength	122 MPa	17700 psi	2 mm/min; ISO 178
Flexural Modulus	6.20 GPa	899 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)	35.0 kJ/m ²	16.7 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	64.0 µm/m-°C @Temperature 23.0 - 60.0 °C	35.6 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	77.0 µm/m-°C @Temperature 23.0 - 60.0 °C	42.8 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa	179 °C	354 °F	

(56 psi) Thermal Properties	Metric	English	Flatw 80x10x4, sp=64 mm; ISO 75/Bf Comments
Deflection Temperature at 1.8 MPa (264 psi)	94.0 °C	201 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af
Flammability, UL94	V-2 @Thickness 0.800 mm	V-2 @Thickness 0.0315 in	

Processing Properties	Metric	English	Comments
Zone 1	245 - 255 °C	473 - 491 °F	
Zone 2	250 - 260 °C	482 - 500 °F	
Zone 3	250 - 260 °C	482 - 500 °F	
Melt Temperature	255 - 265 °C	491 - 509 °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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