

## Eurostar Starflam PK0049 PA6, Mineral Fiber Filled, Flame Retardant, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Mineral Filled

### Material Notes:

Starflam PK0049 is a Free Flame Retardant Mineral Filled Polyamide 6 Injection Molding Resin. Information provided by Eurostar.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eurostar-Starflam-PK0049-PA6-Mineral-Fiber-Filled-Flame-Retardant-Injection-Molded.php](http://www.lookpolymers.com/polymer_Eurostar-Starflam-PK0049-PA6-Mineral-Fiber-Filled-Flame-Retardant-Injection-Molded.php)

Physical Properties	Metric	English	Comments
Density	1.54 g/cc	0.0556 lb/in <sup>3</sup>	ISO 1183
Water Absorption	1.0 % @Temperature 23.0 °C, Time 86400 sec	1.0 % @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 at Break	64.0 MPa	9280 psi	5 mm/min; ISO 527
Elongation at Break	1.9 %	1.9 %	5 mm/min; ISO 527
	2.8 %	2.8 %	Flexural, 2 mm/min; ISO 178
Tensile Modulus	5.80 GPa	841 ksi	1 mm/min; ISO 527
Flexural Strength	103 MPa	14900 psi	2 mm/min; ISO 178
Flexural Yield Strength	103 MPa	14900 psi	2 mm/min; ISO 178
Flexural Modulus	5.20 GPa	754 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	20.0 kJ/m <sup>2</sup>	9.52 ft-lb/in <sup>2</sup>	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	53.0 µm/m-°C @Temperature 23.0 - 60.0 °C	29.4 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	94.0 µm/m-°C @Temperature 23.0 - 60.0 °C	52.2 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	115 °C	239 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Bf
Deflection Temperature at 1.8 MPa (264 psi)	102 °C	216 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Zone 1	240 - 250 °C	464 - 482 °F	
Zone 2	250 - 260 °C	482 - 500 °F	
Zone 3	250 - 270 °C	482 - 518 °F	
Melt Temperature	250 - 270 °C	482 - 518 °F	
Mold Temperature	50.0 - 90.0 °C	122 - 194 °F	
Drying Temperature	80.0 °C @Time 14400 sec	176 °F @Time 4.00 hour	
Moisture Content	0.20 %	0.20 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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