

## Eurostar Starflam PX06091 PA6, Flame Retardant, Injection Molded

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

### Material Notes:

Starflam PX06091 is an Unfilled, Halogen Free and 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-PX06091-PA6-Flame-Retardant-Injection-Molded.php](http://www.lookpolymers.com/polymer_Eurostar-Starflam-PX06091-PA6-Flame-Retardant-Injection-Molded.php)

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in <sup>3</sup>	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 $\mu\text{m}/\text{m}\cdot\text{C}$ @Temperature 23.0 - 60.0 $^{\circ}\text{C}$	41.7 $\mu\text{in}/\text{in}\cdot\text{F}$ @Temperature 73.4 - 140 $^{\circ}\text{F}$	ISO 11359-2
CTE, linear, Transverse to Flow	80.0 $\mu\text{m}/\text{m}\cdot\text{C}$ @Temperature 23.0 - 60.0 $^{\circ}\text{C}$	44.4 $\mu\text{in}/\text{in}\cdot\text{F}$ @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
Flammability, UL94	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	
Oxygen Index	32 %	32 %	ISO 4589

Thermal Properties	Metric	English	Comments
Glow Wire Test	@Thickness 0.750 mm	@Thickness 0.0295 in	IEC 60695-2-12

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

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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