

Eurostar Starflam B28UL PA6, Flame Retardant, Injection Molded

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

Material Notes:

Starflam B28UL is Unfilled Halogen Free and Red Phosphorous Free, Flame Retardant, Unreinforced Polyamide 6, Injection Molding Resin. Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starflam-B28UL-PA6-Flame-Retardant-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Moisture Absorption	2.60 % @Temperature 23.0 °C	2.60 % @Temperature 73.4 °F	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.012 - 0.016 cm/cm	0.012 - 0.016 in/in	on Tensile Bar; E2P method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ISO 2039-2
Tensile Strength at Break	80.0 MPa	11600 psi	50 mm/min; ISO 527
Tensile Strength, Yield	80.0 MPa	11600 psi	50 mm/min; ISO 527
Elongation at Break	4.5 %	4.5 %	50 mm/min; ISO 527
Elongation at Yield	3.9 %	3.9 %	50 mm/min; ISO 527
Tensile Modulus	3.20 GPa	464 ksi	1 mm/min; ISO 527
Flexural Yield Strength	110 MPa	16000 psi	2 mm/min; ISO 178
Flexural Modulus	3.00 GPa	435 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	3.00 kJ/m ² @Temperature -40.0 °C	1.43 ft-lb/in ² @Temperature -40.0 °F	80x10x4; ISO 180/1A
	4.00 kJ/m ² @Temperature 23.0 °C	1.90 ft-lb/in ² @Temperature 73.4 °F	80x10x4; ISO 180/1A
	4.00 kJ/m ² @Temperature -20.0 °C	1.90 ft-lb/in ² @Temperature -4.00 °F	80x10x4; ISO 180/1A
	4.00 kJ/m ² @Temperature -30.0 °C	1.90 ft-lb/in ² @Temperature -22.0 °F	80x10x4; ISO 180/1A
	5.00 J/cm ²	23.8 ft-lb/in ²	

Charpy Impact Unnotched Mechanical Properties	Metric @ Temperature -30.0 °C	English @ Temperature -22.0 °F	Edgew 80x10x4 sp=62; ISO 179/1eU Comments
	7.00 J/cm²	33.3 ft-lb/in²	Edgew 80x10x4 sp=62; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.400 J/cm²	1.90 ft-lb/in²	Edgew 80x10x4 sp=62; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.400 J/cm²	1.90 ft-lb/in²	Edgew 80x10x4 sp=62; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 µm/m-°C	33.3 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
CTE, linear, Transverse to Flow	78.0 µm/m-°C	43.3 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
Thermal Conductivity	0.290 W/m-K	2.01 BTU-in/hr-ft²-°F	ISO 8302
Hot Ball Pressure Test	123 - 127 °C	253 - 261 °F	IEC 60695-10-2
Deflection Temperature at 0.46 MPa (66 psi)	180 °C	356 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	68.0 °C	154 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Ae
Vicat Softening Point	200 °C	392 °F	B/120; ISO 306
	202 °C	396 °F	B/50; ISO 306
UL RTI, Electrical	130 °C	266 °F	
UL RTI, Mechanical with Impact	90.0 °C	194 °F	
UL RTI, Mechanical without Impact	100 °C	212 °F	
Flammability, UL94	V-2	V-2	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Oxygen Index	25 %	25 %	ISO 4589
Glow Wire Test	960 °C	1760 °F	IEC 60695-2-12
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Surface Resistance	$\geq 1.00 \times 10^{15}$ ohm-cm	$\geq 1.00 \times 10^{15}$ ohm	IEC 60093
Dielectric Constant	3.0	3.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.1	3.1	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
Dielectric Strength	16.0 kV/mm	406 kV/in	in oil; IEC 60243-1
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dissipation Factor	0.0087	0.0087	IEC 60250
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	
	0.0182	0.0182	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112
	600 V	600 V	M; IEC 60112

Processing Properties	Metric	English	Comments
Zone 1	230 - 240 °C	446 - 464 °F	
Zone 2	240 - 250 °C	464 - 482 °F	
Zone 3	250 - 260 °C	482 - 500 °F	
Melt Temperature	250 - 260 °C	482 - 500 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	75.0 - 85.0 °C	167 - 185 °F	
	@Time 14400 - 21600 sec	@Time 4.00 - 6.00 hour	
Moisture Content	0.20 %	0.20 %	

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