

Eurostar Starflam BFR200Y PA6, Flame Retardant, Injection Molded

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

Material Notes:

Starflam BFR200Y is 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-BFR200Y-PA6-Flame-Retardant-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Moisture Absorption	2.20 % @Temperature 23.0 °C	2.20 % @Temperature 73.4 °F	50% RH; ISO 62
Water Absorption at Saturation	9.0 % @Temperature 23.0 °C	9.0 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage, Flow	0.0080 - 0.012 cm/cm	0.0080 - 0.012 in/in	on Tensile Bar; E2P method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ISO 2039-2
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
Izod Impact, Notched (ISO)	4.00 kJ/m ² @Temperature -20.0 °C	1.90 ft-lb/in ² @Temperature -4.00 °F	80x10x4; ISO 180/1A
	5.00 kJ/m ² @Temperature 23.0 °C	2.38 ft-lb/in ² @Temperature 73.4 °F	80x10x4; ISO 180/1A
Charpy Impact Unnotched	>= 10.0 J/cm ² @Temperature 23.0 °C	>= 47.6 ft-lb/in ² @Temperature 73.4 °F	Edgew 80x10x4 sp=62; ISO 179/1eU
	>= 10.0 J/cm ² @Temperature -30.0 °C	>= 47.6 ft-lb/in ² @Temperature -22.0 °F	Edgew 80x10x4 sp=62; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	@Temperature -30.0 °C	@Temperature -22.0 °F	Edgew 80x10x4 sp=62; ISO 179/1eA
	0.500 J/cm ²	2.38 ft-lb/in ²	Edgew 80x10x4 sp=62; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	75.0 µm/m-°C	41.7 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
CTE, linear, Transverse to Flow	190 µm/m-°C	106 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 60.0 °C	@Temperature 73.4 - 140 °F	
Hot Ball Pressure Test	123 - 127 °C	253 - 261 °F	IEC 60695-10-2
Deflection Temperature at 0.46 MPa (66 psi)	190 °C	374 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Ae
Vicat Softening Point	200 °C	392 °F	B/120; ISO 306
	205 °C	401 °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-0	V-0	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Oxygen Index	32 %	32 %	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
Volume Resistivity	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+16 ohm	>= 1.00e+16 ohm	IEC 60093
Dielectric Constant	3.0	3.0	IEC 60250
	@Frequency 1.00e+6	@Frequency 1.00e+6	

Electrical Properties	Hz Metric	Hz English	Comments
	3.3	3.3	
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	IEC 60250
Dielectric Strength	15.0 kV/mm	381 kV/in	
	@Thickness 3.20 mm	@Thickness 0.126 in	in oil; IEC 60243-1
Dissipation Factor	0.0078	0.0078	
	@Frequency 50.0 - 60.0 Hz	@Frequency 50.0 - 60.0 Hz	IEC 60250
	0.019	0.019	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
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	176 °F	
	@Time 14400 sec	@Time 4.00 hour	
Moisture Content	0.20 %	0.20 %	

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