

Eurostar Starflam AFR200Y PA66, Flame Retardant, Injection Molding

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced, Flame Retardant

Material Notes:

Staramide AFR200Y is an Unfilled, Halogen Free and Red Phosphorous Free, Flame Retardant Polyamide 66, Injection Molding

Resin Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starflam-AFR200Y-PA66-Flame-Retardant-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ISO 1183
Moisture Absorption	1.10 % @Temperature 23.0 °C	1.10 % @Temperature 73.4 °F	50% RH; ISO 62
Water Absorption at Saturation	7.5 % @Temperature 23.0 °C	7.5 % @Temperature 73.4 °F	ISO 62-1
Linear Mold Shrinkage, Flow	0.011 - 0.015 cm/cm	0.011 - 0.015 in/in	on Tensile Bar; E2P method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ISO 2039-2
Tensile Strength at Break	78.0 MPa	11300 psi	5 mm/min; ISO 527
Tensile Strength, Yield	80.0 MPa	11600 psi	5 mm/min; ISO 527
Elongation at Break	9.0 %	9.0 %	5 mm/min; ISO 527
Elongation at Yield	4.8 %	4.8 %	5 mm/min; ISO 527
Tensile Modulus	3.40 GPa	493 ksi	1 mm/min; ISO 527
Flexural Yield Strength	120 MPa	17400 psi	2 mm/min; ISO 178
Flexural Modulus	3.30 GPa	479 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	3.00 kJ/m ² @Temperature -30.0 °C	1.43 ft-lb/in ² @Temperature -22.0 °F	80x10x4; ISO 180/1A
	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	1.90 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature -20.0 °C	English @ Temperature -4.00 °F	80x10x4: ISO 180/1A Comments
Charpy Impact Unnotched	7.00 J/cm ² @Temperature -30.0 °C	33.3 ft-lb/in ² @Temperature -22.0 °F	Edgew 80x10x4 sp=62; ISO 179/1eU
	>= 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
Charpy Impact, Notched	0.300 J/cm ² @Temperature 23.0 °C	1.43 ft-lb/in ² @Temperature 73.4 °F	Edgew 80x10x4 sp=62; ISO 179/1eA
	0.300 J/cm ² @Temperature -30.0 °C	1.43 ft-lb/in ² @Temperature -22.0 °F	Edgew 80x10x4 sp=62; ISO 179/1eA
Taber Abrasion, mg/1000 Cycles	24 @Load 1.00 kg	24 @Load 2.20 lb	CS-17; E2P Method

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	85.0 µm/m-°C @Temperature 23.0 - 60.0 °C	47.2 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	85.0 µm/m-°C @Temperature 23.0 - 60.0 °C	47.2 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
Hot Ball Pressure Test	123 - 127 °C	253 - 261 °F	IEC 60695-10-2
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Ae
Vicat Softening Point	245 °C	473 °F	B/120; ISO 306
	247 °C	477 °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	115 °C	239 °F	
Flammability, UL94	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	
Oxygen Index	29 %	29 %	ISO 4589

Thermal Properties	960 °C Metric	1760 °F English	Comments 2-12
	@Thickness 1.00 mm	@Thickness 0.0394 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ROA; IEC 60093
Dielectric Strength	15.0 kV/mm @Thickness 3.20 mm	381 kV/in @Thickness 0.126 in	in oil; IEC 60243-1
Comparative Tracking Index	500 V	500 V	M; IEC 60112
	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Zone 1	260 - 270 °C	500 - 518 °F	
Zone 2	265 - 280 °C	509 - 536 °F	
Zone 3	270 - 280 °C	518 - 536 °F	
Melt Temperature	265 - 280 °C	509 - 536 °F	
Mold Temperature	60.0 - 90.0 °C	140 - 194 °F	
Drying Temperature	75.0 - 85.0 °C @Time 14400 - 21600 sec	167 - 185 °F @Time 4.00 - 6.00 hour	
Moisture Content	0.20 %	0.20 %	

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