

Eurostar Staramide ACF6 PA66, 30% Carbon Fiber Reinforced, Heat stabilized, Injection Molding

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Carbon Fiber Filled

Material Notes:

Staramide ACF6 is a 30% Carbon Fiber Reinforced Polyamide 66, Injection Molding Resin Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-ACF6-PA66-30-Carbon-Fiber-Reinforced-Heat-stabilized-Injection-Molding.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ISO 1183
Water Absorption at Saturation	4.5 % @Temperature 23.0 °C	4.5 % @Temperature 73.4 °F	ISO 62-1
Linear Mold Shrinkage, Flow	>= 0.00080 cm/cm	>= 0.00080 in/in	on Tensile Bar; E2P method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	108	108	ISO 2039-2
Tensile Strength at Break	250 MPa	36300 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	22.0 GPa	3190 ksi	1 mm/min; ISO 527
Flexural Strength	360 MPa	52200 psi	2 mm/min; ISO 178
Flexural Modulus	19.5 GPa	2830 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ² @Temperature -40.0 °C	2.86 ft-lb/in ² @Temperature -40.0 °F	80x10x4; ISO 180/1A
	7.00 kJ/m ² @Temperature -20.0 °C	3.33 ft-lb/in ² @Temperature -4.00 °F	80x10x4; ISO 180/1A
	8.00 kJ/m ² @Temperature 23.0 °C	3.81 ft-lb/in ² @Temperature 73.4 °F	80x10x4; ISO 180/1A
Charpy Impact Unnotched	7.00 J/cm ²	33.3 ft-lb/in ²	Edgew 80x10x4 sp=62; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.0 µm/m-°C @Temperature 23.0 -	7.78 µin/in-°F @Temperature 73.4 -	ISO 11359-2

Thermal Properties	60.0 °C Metric	140 °F English	Comments
CTE, linear, Transverse to Flow	100 µm/m-°C @Temperature 23.0 - 60.0 °C	55.6 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	260 °C	500 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	257 °C	495 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Ae
Vicat Softening Point	255 °C	491 °F	B/120; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
Oxygen Index	27 %	27 %	ISO 4589

Electrical Properties	Metric	English	Comments
Volume Resistivity	4320 ohm-cm	4320 ohm-cm	IEC 60093
Surface Resistance	4320 ohm	4320 ohm	ROA; IEC 60093

Processing Properties	Metric	English	Comments
Zone 1	260 - 280 °C	500 - 536 °F	
Zone 2	270 - 280 °C	518 - 536 °F	
Zone 3	270 - 290 °C	518 - 554 °F	
Melt Temperature	270 - 290 °C	518 - 554 °F	
Mold Temperature	70.0 - 90.0 °C	158 - 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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