

## Eurostar Staramide ACF4 PA66, 20% Carbon Fiber Reinforced, Heat stabilized, Injection Molding

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Carbon Fiber Filled

### Material Notes:

Staramide ACF3 is a 20% 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-ACF4-PA66-20-Carbon-Fiber-Reinforced-Heat-stabilized-Injection-Molding.php](http://www.lookpolymers.com/polymer_Eurostar-Staramide-ACF4-PA66-20-Carbon-Fiber-Reinforced-Heat-stabilized-Injection-Molding.php)

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in <sup>3</sup>	ISO 1183
Water Absorption at Saturation	5.0 % @Temperature 23.0 °C	5.0 % @Temperature 73.4 °F	ISO 62-1
Linear Mold Shrinkage, Flow	0.0010 - 0.0015 cm/cm	0.0010 - 0.0015 in/in	on Tensile Bar; E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	190 MPa	27600 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	15.0 GPa	2180 ksi	1 mm/min; ISO 527
Flexural Strength	280 MPa	40600 psi	2 mm/min; ISO 178
Flexural Modulus	12.5 GPa	1810 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m <sup>2</sup> @Temperature -40.0 °C	2.38 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	80x10x4; ISO 180/1A
	6.00 kJ/m <sup>2</sup> @Temperature -20.0 °C	2.86 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	80x10x4; ISO 180/1A
	8.00 kJ/m <sup>2</sup> @Temperature 23.0 °C	3.81 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80x10x4; ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	17.0 µm/m-°C @Temperature 23.0 - 60.0 °C	9.44 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	105 µm/m-°C @Temperature 23.0 -	58.3 µin/in-°F @Temperature 73.4 -	ISO 11359-2

Thermal Properties	60.0 °C Metric	140 °F English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	255 °C	491 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °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	178000 ohm-cm	178000 ohm-cm	IEC 60093
Surface Resistance	178000 ohm	178000 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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