

## Eurostar Staramide PF00AE PA6, 50% Glass Fiber Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 50% Glass Fiber Filled

### Material Notes:

Staramide PF00AE is a 50% Glass Fiber Reinforced, Polyamide 6 Injection Molding Resin. Information provided by Eurostar.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eurostar-Staramide-PF00AE-PA6-50-Glass-Fiber-Filled-Injection-Molded.php](http://www.lookpolymers.com/polymer_Eurostar-Staramide-PF00AE-PA6-50-Glass-Fiber-Filled-Injection-Molded.php)

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.600 % @Temperature 23.0 °C	0.600 % @Temperature 73.4 °F	50% RH; ISO 62
Water Absorption at Saturation	4.5 % @Temperature 23.0 °C	4.5 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	on Tensile Bar; E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	224 MPa	32500 psi	5 mm/min; ISO 527
Elongation at Break	3.2 %	3.2 %	5 mm/min; ISO 527
Tensile Modulus	14.0 GPa	2030 ksi	1 mm/min; ISO 527
Flexural Strength	320 MPa	46400 psi	2 mm/min; ISO 178
Flexural Modulus	13.25 GPa	1922 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	15.0 kJ/m <sup>2</sup> @Temperature -30.0 °C	7.14 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	80x10x4; ISO 180/1A
	18.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	8.57 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	90.0 kJ/m <sup>2</sup>	42.8 ft-lb/in <sup>2</sup>	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Hot Ball Pressure Test	123 - 127 °C	253 - 261 °F	IEC 60695-10-2
Deflection Temperature at 1.8 MPa (264 psi)	212 °C	414 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Ae

Processing Properties	Metric	English	Comments
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Zone 1 Processing Properties	250 - 260 °C Metric	482 - 500 °F English	Comments
Zone 2	260 - 280 °C	500 - 536 °F	
Zone 3	260 - 280 °C	500 - 536 °F	
Melt Temperature	260 - 280 °C	500 - 536 °F	
Mold Temperature	50.0 - 90.0 °C	122 - 194 °F	
Drying Temperature	80.0 °C @Time 14400 sec	176 °F @Time 4.00 hour	
Moisture Content	0.20 %	0.20 %	

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