

Eurostar Staramide PF003U PA6, 15% Glass Fiber Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 20% Glass Fiber Filled

Material Notes:

Staramide PF003U is an 15% Glass Fiber Reinforced, Polyamide 6 Injection Molding Resin, UV Stabilized (also known as Staramide 6 15V S4)Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-PF003U-PA6-15-Glass-Fiber-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0030 - 0.0040 cm/cm @Thickness 3.00 mm	0.0030 - 0.0040 in/in @Thickness 0.118 in	E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	131 MPa	19000 psi	50 mm/min; ISO 527
Elongation at Break	3.7 %	3.7 %	50 mm/min; ISO 527
Tensile Modulus	5.70 GPa	827 ksi	1 mm/min; ISO 527
Flexural Strength	170 MPa	24700 psi	2 mm/min; ISO 178
Flexural Modulus	5.00 GPa	725 ksi	ISO 178
Izod Impact, Notched (ISO)	64.0 kJ/m ²	30.5 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	45.0 kJ/m ²	21.4 ft-lb/in ²	80x10x4; ISO 180/1U
Charpy Impact Unnotched	4.80 J/cm ²	22.8 ft-lb/in ²	Edgew 80x10x4 sp=62; ISO 179/1eU

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	197 °C @Thickness 3.20 mm	387 °F @Thickness 0.126 in	unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Zone 1	230 - 240 °C	446 - 464 °F	
Zone 2	240 - 250 °C	464 - 482 °F	
Zone 3	240 - 270 °C	464 - 518 °F	
Melt Temperature	240 - 270 °C	464 - 518 °F	

Mold Temperature Processing Properties	60.0 - 80.0 °C Metric	140 - 176 °F English	Comments
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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