

Eurostar Staramide BG3ST43 PA6, 15% Glass Fiber Filled, Impact Modified, Injection Molded

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

Material Notes:

BG3ST43 is an Impact Modified and Glass Fiber Reinforced, Polyamide 6 Injection Molding Resin. Information provided by Polymer Technology & Services, the North American exclusive supplier.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-BG3ST43-PA6-15-Glass-Fiber-Filled-Impact-Modified-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	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	0.0080 - 0.012 cm/cm	0.0080 - 0.012 in/in	on Tensile Bar, Flow; ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	5 mm/min; ISO 527
Elongation at Break	10 %	10 %	5 mm/min; ISO 527
Tensile Modulus	4.50 GPa	653 ksi	1 mm/min; ISO 527
Izod Impact, Notched (ISO)	7.00 kJ/m ² @Temperature -40.0 °C	3.33 ft-lb/in ² @Temperature -40.0 °F	ISO 180/1A
	12.0 kJ/m ² @Temperature -20.0 °C	5.71 ft-lb/in ² @Temperature -4.00 °F	ISO 180/1A
	18.0 kJ/m ² @Temperature 23.0 °C	8.57 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	52.0 µm/m-°C @Temperature 23.0 - 60.0 °C	28.9 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	102 µm/m-°C @Temperature 23.0 - 60.0 °C	56.7 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	200 °C	392 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Bf

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	EdgeW 120x10x4, sp=100 mm; ISO 75/Af
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	550 V	550 V	IEC 60112

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