

Eurostar Staramide BG3ST42 PA6, Glass Fiber Filled, Impact Modified, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass Filled, Impact Grade

Material Notes:

Staramide BG3ST42 is an Impact Modified and 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-BG3ST42-PA6-Glass-Fiber-Filled-Impact-Modified-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Water Absorption at Saturation	5.0 % @Temperature 23.0 °C	5.0 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage, Flow	0.0080 - 0.012 cm/cm	0.0080 - 0.012 in/in	on Tensile Bar; E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	94.0 MPa	13600 psi	5 mm/min; ISO 527
Elongation at Break	8.0 %	8.0 %	5 mm/min; ISO 527
Tensile Modulus	5.20 GPa	754 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	80x10x4; ISO 180/1A
	11.0 kJ/m ² @Temperature -20.0 °C	5.23 ft-lb/in ² @Temperature -4.00 °F	80x10x4; ISO 180/1A
	14.0 kJ/m ² @Temperature 23.0 °C	6.66 ft-lb/in ² @Temperature 73.4 °F	80x10x4; 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/Be

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	165 °C	329 °F	5.99mm 120x10x4, sp=100 mm; ISO 75/Ae
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	500 V	500 V	M; IEC 60112
	550 V	550 V	IEC 60112

Processing Properties	Metric	English	Comments
Zone 1	230 - 240 °C	446 - 464 °F	
Zone 2	240 - 250 °C	464 - 482 °F	
Zone 3	240 - 260 °C	464 - 500 °F	
Melt Temperature	240 - 260 °C	464 - 500 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °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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