

Eurostar Staramide BG2ST43 PA6, Glass Fiber Filled, Impact Modified, Injection Molded

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

Material Notes:

Staramide BG2ST43 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-BG2ST43-PA6-Glass-Fiber-Filled-Impact-Modified-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ISO 1183
Water Absorption at Saturation	6.0 % @Temperature 23.0 °C	6.0 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage, Flow	0.0095 - 0.0135 cm/cm	0.0095 - 0.0135 in/in	on Tensile Bar; E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	5 mm/min; ISO 527
Elongation at Break	10 %	10 %	5 mm/min; ISO 527
Tensile Modulus	4.20 GPa	609 ksi	1 mm/min; ISO 527
Izod Impact, Notched (ISO)	13.0 kJ/m ² @Temperature -40.0 °C	6.19 ft-lb/in ² @Temperature -40.0 °F	80x10x4; ISO 180/1A
	14.0 kJ/m ² @Temperature -20.0 °C	6.66 ft-lb/in ² @Temperature -4.00 °F	80x10x4; ISO 180/1A
	20.0 kJ/m ² @Temperature 23.0 °C	9.52 ft-lb/in ² @Temperature 73.4 °F	80x10x4; ISO 180/1A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	180 °C	356 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	145 °C	293 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Ae
Vicat Softening Point	170 °C	338 °F	B/50; ISO 306
	185 °C	365 °F	B/120; ISO 306
	HB	HB	

Flammability UL 94			
Thermal Properties	Metric	English	Comments
	@ Thickness 0.750 mm	@ Thickness 0.0295 in	
Electrical Properties			
Comparative Tracking Index	Metric	English	Comments
	575 V	575 V	IEC 60112
Processing Properties			
Zone 1	Metric	English	Comments
	230 - 240 °C	446 - 464 °F	
Zone 2	Metric	English	Comments
	240 - 250 °C	464 - 482 °F	
Zone 3	Metric	English	Comments
	240 - 260 °C	464 - 500 °F	
Melt Temperature	Metric	English	Comments
	240 - 260 °C	464 - 500 °F	
Mold Temperature	Metric	English	Comments
	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	Metric	English	Comments
	75.0 - 85.0 °C	167 - 185 °F	
	@Time 14400 - 21600 sec	@Time 4.00 - 6.00 hour	
Moisture Content	Metric	English	Comments
	0.20 %	0.20 %	

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