

## Eurostar Staramide BG6ST43 PA6, 30% Glass Fiber Filled, Impact Modified, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Glass Fiber Filled

### Material Notes:

BG6ST43 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-BG6ST43-PA6-30-Glass-Fiber-Filled-Impact-Modified-Injection-Molded.php](http://www.lookpolymers.com/polymer_Eurostar-Staramide-BG6ST43-PA6-30-Glass-Fiber-Filled-Impact-Modified-Injection-Molded.php)

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in <sup>3</sup>	ISO 1183
Water Absorption at Saturation	4.5 % @Temperature 23.0 °C	4.5 % @Temperature 73.4 °F	ISO 62-1
Linear Mold Shrinkage, Flow	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	on Tensile Bar; ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	95.0 MPa	13800 psi	5 mm/min; ISO 527
Elongation at Break	6.0 %	6.0 %	5 mm/min; ISO 527
Tensile Modulus	6.20 GPa	899 ksi	1 mm/min; ISO 527
Izod Impact, Notched (ISO)	19.0 kJ/m <sup>2</sup> @Temperature -40.0 °C	9.04 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	Edgew 80x10x4; ISO 180/1A
	21.0 kJ/m <sup>2</sup> @Temperature -20.0 °C	9.99 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	Edgew 80x10x4; ISO 180/1A
	24.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	11.4 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	Edgew 80x10x4; ISO 180/1A
Charpy Impact Unnotched	>= 10.0 J/cm <sup>2</sup> @Temperature 23.0 °C	>= 47.6 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	Edgew 80x10x4 sp=62; ISO 179/1eU
	>= 10.0 J/cm <sup>2</sup> @Temperature -30.0 °C	>= 47.6 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	Edgew 80x10x4 sp=62; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	29.0 µm/m-°C @Temperature 23.0 -	16.1 µin/in-°F @Temperature 73.4 -	ISO 11359-2

Thermal Properties	60.0 °C Metric	140 °F English	Comments
CTE, linear, Transverse to Flow	89.0 µm/m-°C @Temperature 23.0 - 60.0 °C	49.4 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
Deflection Temperature at 1.8 MPa (264 psi)	175 °C	347 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Af
Vicat Softening Point	210 °C	410 °F	B/120; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 240 °C	446 - 464 °F	Zone 1
Middle Barrel Temperature	240 - 250 °C	464 - 482 °F	Zone 2
Front Barrel Temperature	240 - 260 °C	464 - 500 °F	Zone 3
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	167 - 185 °F	
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	
Moisture Content	0.20 %	0.20 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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