

Eurostar Staramide BK8 PA6, 40% Mineral Fiber Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Mineral Filled

Material Notes:

Staramide BK8 is a 40% Mineral 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-BK8-PA6-40-Mineral-Fiber-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	on Tensile Bar; E2P method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	112	112	ISO 2039-2
Tensile Strength at Break	90.0 MPa	13100 psi	50 mm/min; ISO 527
Elongation at Break	6.0 %	6.0 %	5 mm/min; ISO 527
Tensile Modulus	5.80 GPa	841 ksi	1 mm/min; ISO 527
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80x10x4; ISO 180/1A
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	5.00 kJ/m ²	2.38 ft-lb/in ²	
	@Temperature -40.0 °C	@Temperature -40.0 °F	80x10x4; ISO 180/1A
	6.00 kJ/m ²	2.86 ft-lb/in ²	80x10x4; ISO 180/1A
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	225 °C	437 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	113 °C	235 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Ae
Vicat Softening Point	230 °C	446 °F	B/120; ISO 306
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	26 %	26 %	ISO 4589
Glow Wire Test	650 °C	1200 °F	IEC 60695-2-12

Thermal Properties	@Thickness 2.00 mm Metric	@Thickness 0.0787 in English	Comments
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	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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