Eurostar Staramide BT6 PA6, 30% Mineral Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Mineral Filled

Material Notes:

Staramide BT6 is a 30% Mineral Filled, Polyamide 6, Injection Molding ResinInformation provided by Eurostar.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Eurostar-Staramide-BT6-PA6-30-Mineral-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.37 g/cc	0.0495 lb/in³	ISO 1183
Water Absorption at Saturation	6.5 % @Temperature 23.0 °C	6.5 % @Temperature 73.4 °F	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	105	105	ISO 2039-2
Tensile Strength at Break	80.0 MPa	11600 psi	5 mm/min; ISO 527
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527
Tensile Modulus	7.50 GPa	1090 ksi	1 mm/min; ISO 527
Flexural Strength	125 MPa	18100 psi	2 mm/min; ISO 178
Flexural Modulus	7.00 GPa	1020 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m²	1.90 ft-lb/in²	80x10x4; ISO 180/1A
Charpy Impact Unnotched	5.00 J/cm²	23.8 ft-lb/in²	Edgew 80x10x4 sp=62; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 µm/m-°C @Temperature 23.0 - 60.0 °C	22.2 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	50.0 µm/m-°C @Temperature 23.0 - 60.0 °C	27.8 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	205 °C	401 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	165 °C	329 °F	Edgew 120x10x4, sp=100 mm; ISO 75/Ae
Vicat Softening Point	222 °C	432 °F	B/120; ISO 306

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
Oxygen Index	24 %	24 %	ISO 4589
Glow Wire Test	650 °C @Thickness 2.00 mm	1200 °F @Thickness 0.0787 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	350 V	350 V	M; IEC 60112
	425 V	425 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 - 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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