

Eurostar Staramide PB00A PA6, 50% Glass Bead Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Glass Bead Filled

Material Notes:

Staramide PB00A is a 50% Glass Bead Reinforced, Polyamide 6 Injection Molding Resin. Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-PB00A-PA6-50-Glass-Bead-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ISO 1183
Water Absorption	1.6 % @Temperature 23.0 °C, Time 86400 sec	1.6 % @Temperature 73.4 °F, Time 24.0 hour	ISO 62-1
Linear Mold Shrinkage, Flow	0.011 cm/cm @Thickness 4.00 mm	0.011 in/in @Thickness 0.157 in	E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	64.0 MPa	9280 psi	5 mm/min; ISO 527
Elongation at Break	2.3 %	2.3 %	5 mm/min; ISO 527
	3.4 %	3.4 %	Flexural, 2 mm/min; ISO 178
Tensile Modulus	5.00 GPa	725 ksi	1 mm/min; ISO 527
Flexural Strength	93.0 MPa	13500 psi	2 mm/min; ISO 178
Flexural Modulus	4.50 GPa	653 ksi	ISO 178
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	15.0 kJ/m ²	7.14 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	74.0 µm/m-°C @Temperature 23.0 - 60.0 °C	41.1 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
CTE, linear, Transverse to Flow	72.0 µm/m-°C @Temperature 23.0 - 60.0 °C	40.0 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	180 °C	356 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Bf

Thermal Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Zone 1	250 - 260 °C	482 - 500 °F	
Zone 2	265 - 275 °C	509 - 527 °F	
Zone 3	275 - 290 °C	527 - 554 °F	
Melt Temperature	265 - 275 °C	509 - 527 °F	
Mold Temperature	80.0 - 90.0 °C	176 - 194 °F	
Drying Temperature	80.0 °C @Time 14400 sec	176 °F @Time 4.00 hour	
Moisture Content	0.20 %	0.20 %	

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