

Eurostar Staramide RB004 PA66, 20% Glass Bead Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , Glass Bead Filled

Material Notes:

Staramide RB004 is a 20% Glass Bead Reinforced Polyamide 66 Injection Molding Resin Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-RB004-PA66-20-Glass-Bead-Filled-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.011 - 0.013 cm/cm @Thickness 4.00 mm	0.011 - 0.013 in/in @Thickness 0.157 in	E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	ISO 527
Elongation at Break	5.0 %	5.0 %	ISO 527
Tensile Modulus	4.30 GPa	624 ksi	1 mm/min; ISO 527
Flexural Strength	100 MPa	14500 psi	ISO 178
Flexural Modulus	3.30 GPa	479 ksi	ISO 178
Izod Impact, Notched (ISO)	4.50 kJ/m ²	2.14 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	25.0 kJ/m ²	11.9 ft-lb/in ²	80x10x4; ISO 180/1U
Charpy Impact Unnotched	2.50 J/cm ²	11.9 ft-lb/in ²	Edgew 80x10x4 sp=62; ISO 179/1eU
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	Edgew 80x10x4 sp=62; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af

Processing Properties	Metric	English	Comments
Zone 1	260 - 280 °C	500 - 536 °F	
Zone 2	270 - 280 °C	518 - 536 °F	
Zone 3	270 - 290 °C	518 - 554 °F	
Melt Temperature	270 - 290 °C	518 - 554 °F	

Mold Temperature Processing Properties	60.0 - 90.0 °C Metric	140 - 194 °F English	Comments
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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