

Eurostar Staramide RB008 PA66, 40% Glass Bead Filled, Injection Molded

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

Material Notes:

Staramide RB008 is a 40% 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-RB008-PA66-40-Glass-Bead-Filled-Injection-Molded.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--------------------|---------------------------|------------|
| Density | 1.44 g/cc | 0.0520 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage, Flow | 0.014 cm/cm | 0.014 in/in | E2P method |
| | @Thickness 4.00 mm | @Thickness 0.157 in | |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|------------------------|----------------------------|----------------------|
| Tensile Strength, Yield | 83.0 MPa | 12000 psi | 5 mm/min; ISO 527 |
| Elongation at Break | 4.0 % | 4.0 % | 5 mm/min; ISO 527 |
| Tensile Modulus | 5.20 GPa | 754 ksi | 1 mm/min; ISO 527 |
| Flexural Yield Strength | 128 MPa | 18600 psi | 2 mm/min; ISO 178 |
| Flexural Modulus | 4.40 GPa | 638 ksi | 2 mm/min; ISO 178 |
| Izod Impact, Notched (ISO) | 3.00 kJ/m ² | 1.43 ft-lb/in ² | 80x10x4; ISO 179/1eA |
| Izod Impact, Unnotched (ISO) | 20.0 kJ/m ² | 9.52 ft-lb/in ² | 80x10x4; ISO 180/1U |

| Thermal Properties | Metric | English | Comments |
|---|---|---|------------------------------------|
| CTE, linear, Parallel to Flow | 58.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ | 32.2 $\mu\text{in}/\text{in}\cdot\text{°F}$ | ISO 11359-2 |
| | @Temperature 23.0 - 60.0 °C | @Temperature 73.4 - 140 °F | |
| CTE, linear, Transverse to Flow | 57.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ | 31.7 $\mu\text{in}/\text{in}\cdot\text{°F}$ | ISO 11359-2 |
| | @Temperature 23.0 - 60.0 °C | @Temperature 73.4 - 140 °F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 225 °C | 437 °F | Flatw 80x10x4, sp=64 mm; ISO 75/Bf |
| Deflection Temperature at 1.8 MPa (264 psi) | 110 °C | 230 °F | Flatw 80x10x4, sp=64 mm; ISO 75/Af |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|----------|
| Zone 1 | 260 - 280 °C | 500 - 536 °F | |

| Processing Properties | Metric 280 °C | English 535 °F | Comments |
|-----------------------|--|--|----------|
| Zone 3 | 270 - 290 °C | 518 - 554 °F | |
| Melt Temperature | 270 - 290 °C | 518 - 554 °F | |
| Mold Temperature | 60.0 - 90.0 °C | 140 - 194 °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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