

Eurostar Staramide RB006S PA66, 30% Glass Bead Filled, Injection Molded

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

Material Notes:

Staramide RB006S is a 30% Glass Bead Reinforced Polyamide 66 Injection Molding Resin (also known as Staramide 66 30K S3) Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-RB006S-PA66-30-Glass-Bead-Filled-Injection-Molded.php

| Physical Properties | Metric | English | Comments |
|--------------------------------|-------------------------------|-------------------------------|----------------------------|
| Density | 1.37 g/cc | 0.0495 lb/in ³ | ISO 1183 |
| Water Absorption at Saturation | 5.5 % @Temperature 23.0 °C | 5.5 % @Temperature 73.4 °F | ISO 62 |
| Linear Mold Shrinkage, Flow | 0.011 - 0.015 cm/cm | 0.011 - 0.015 in/in | on Tensile Bar; E2P method |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---|--|----------------------------------|
| Tensile Strength at Break | 80.0 MPa | 11600 psi | 5 mm/min; ISO 527 |
| Elongation at Break | 9.0 % | 9.0 % | 5 mm/min; ISO 527 |
| Tensile Modulus | 4.50 GPa | 653 ksi | 1 mm/min; ISO 527 |
| Flexural Strength | 130 MPa | 18900 psi | 2 mm/min; ISO 178 |
| Flexural Modulus | 4.40 GPa | 638 ksi | 2 mm/min; ISO 178 |
| Izod Impact, Notched (ISO) | 2.00 kJ/m ² @Temperature -40.0 °C | 0.952 ft-lb/in ² @Temperature -40.0 °F | 80x10x4; ISO 179/1eA |
| | 3.00 kJ/m ² @Temperature -20.0 °C | 1.43 ft-lb/in ² @Temperature -4.00 °F | 80x10x4; ISO 179/1eA |
| | 4.00 kJ/m ² @Temperature 23.0 °C | 1.90 ft-lb/in ² @Temperature 73.4 °F | 80x10x4; ISO 179/1eA |
| Charpy Impact Unnotched | 3.00 J/cm ² | 14.3 ft-lb/in ² | 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 |
| | 40.0 µm/m-°C | 22.2 µin/in-°F | |

| CTE linear, Transverse to Flow Thermal Properties | Metric @ Temperature 23.0 - 60.0 °C | English @ Temperature 73.4 - 140 °F | ISO 11359-2 Comments |
|--|---|---|---|
| Deflection Temperature at 0.46 MPa (66 psi) | 235 °C | 455 °F | Edgew 120x10x4, sp=100 mm; ISO 75/Be |
| Deflection Temperature at 1.8 MPa (264 psi) | 100 °C | 212 °F | Edgew 120x10x4, sp=100 mm; ISO 75/Ae |
| Vicat Softening Point | 253 °C | 487 °F | A/50; ISO 306 |
| Flammability, UL94 | HB @Thickness 1.60 mm | HB @Thickness 0.0630 in | |
| Oxygen Index | 26 % | 26 % | ISO 4589 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|--------|---------|--------------|
| Comparative Tracking Index | 250 V | 250 V | M; IEC 60112 |
| | 500 V | 500 V | IEC 60112 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--|--|----------|
| Zone 1 | 270 - 290 °C | 518 - 554 °F | |
| Zone 2 | 260 - 280 °C | 500 - 536 °F | |
| Zone 3 | 260 - 290 °C | 500 - 554 °F | |
| Melt Temperature | 260 - 290 °C | 500 - 554 °F | |
| Mold Temperature | 70.0 - 120 °C | 158 - 248 °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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