

Eurostar Staramide RF004XXC PA6, 20% Glass Fiber Filled, Injection Molded

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Glass Fiber Filled

Material Notes:

Staramide RF004XXC is a 20% Glass Fiber Reinforced Polyamide 66 Injection Molding Resin. Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Staramide-RF004XXC-PA6-20-Glass-Fiber-Filled-Injection-Molded.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|-----------------------|---------------------------|----------------------------|
| Density | 1.28 g/cc | 0.0462 lb/in ³ | ISO 1183 |
| Linear Mold Shrinkage, Flow | 0.0020 - 0.0050 cm/cm | 0.0020 - 0.0050 in/in | on Tensile Bar; E2P method |

| Mechanical Properties | Metric | English | Comments |
|------------------------------|------------------------|----------------------------|----------------------|
| Tensile Strength, Yield | 120 MPa | 17400 psi | ISO 527 |
| Elongation at Break | 2.2 % | 2.2 % | ISO 527 |
| Flexural Strength | 180 MPa | 26100 psi | ISO 178 |
| Flexural Modulus | 6.00 GPa | 870 ksi | ISO 178 |
| Izod Impact, Notched (ISO) | 6.00 kJ/m ² | 2.86 ft-lb/in ² | 80x10x4; ISO 179/1eA |
| Izod Impact, Unnotched (ISO) | 45.0 kJ/m ² | 21.4 ft-lb/in ² | 80x10x4; ISO 180/1U |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|--------------------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 230 °C | 446 °F | Edgew 120x10x4, sp=100 mm; ISO 75/Ae |

| 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 | 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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