

Clariant Renol PEEKSP0002 Polyetheretherketone, 30% Glass Fiber

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Glass Fiber Filled

Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

http://www.lookpolymers.com/polymer_Clariant-Renol-PEEKSP0002-Polyetheretherketone-30-Glass-Fiber.php

| Physical Properties | Metric | English | Comments |
|-----------------------------|--------------|--------------|-----------|
| Specific Gravity | 1.52 g/cc | 1.52 g/cc | ASTM D792 |
| Linear Mold Shrinkage, Flow | 0.0030 cm/cm | 0.0030 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------------------------------|---------------------------------------|-----------|
| Tensile Strength, Yield | 179 MPa | 26000 psi | ASTM D638 |
| Flexural Yield Strength | 276 MPa | 40000 psi | ASTM D790 |
| Flexural Modulus | 11.0 GPa | 1600 ksi | ASTM D790 |
| Izod Impact, Notched | 0.801 J/cm @Temperature 22.8 °C | 1.50 ft-lb/in @Temperature 73.0 °F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|-----------|
| Deflection Temperature at 1.8 MPa (264 psi) | 157 °C | 315 °F | ASTM D648 |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------------------------|----------------------------------|--|
| Melt Temperature | 349 - 399 °C | 660 - 750 °F | |
| Mold Temperature | 163 - 218 °C | 325 - 425 °F | |
| Dry Time | <= 3 hour @Temperature 149 °C | <= 3 hour @Temperature 300 °F | to ensure moisture level is below 0.1% |
| Injection Pressure | 49.6 - 74.5 MPa | 7200 - 10800 psi | Secondary |
| | 82.7 - 124 MPa | 12000 - 18000 psi | Initial |
| Back Pressure | 0.000 - 0.345 MPa | 0.000 - 50.0 psi | |
| Shot Size | 30 - 80 % | 30 - 80 % | |
| Screw Speed | 20 - 50 rpm | 20 - 50 rpm | |

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