

## Oxford Polymers 40GF 40% Glass Fiber Filled Polyetherimide for Extrusion and Injection Molding

Category : Polymer , Thermoplastic , Polyetherimide (PEI) , Polyetherimide (PEI), 40% Glass Fiber

### Material Notes:

40% Glass Fiber Filled Polyetherimide for Extrusion and Injection Molding Information provided by Oxford Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Oxford-Polymers-40GF-40-Glass-Fiber-Filled-Polyetherimide-for-Extrusion-and-Injection-Molding.php](http://www.lookpolymers.com/polymer_Oxford-Polymers-40GF-40-Glass-Fiber-Filled-Polyetherimide-for-Extrusion-and-Injection-Molding.php)

| Physical Properties   | Metric       | English      | Comments  |
|-----------------------|--------------|--------------|-----------|
| Specific Gravity      | 1.60 g/cc    | 1.60 g/cc    | ASTM D792 |
| Filler Content        | 40 %         | 40 %         |           |
| Water Absorption      | 0.13 %       | 0.13 %       | ASTM D570 |
| Linear Mold Shrinkage | 0.0020 cm/cm | 0.0020 in/in | ASTM D955 |

| Mechanical Properties   | Metric                             | English                               | Comments  |
|-------------------------|------------------------------------|---------------------------------------|-----------|
| Tensile Strength, Yield | 179 MPa                            | 26000 psi                             | ASTM D638 |
| Elongation at Break     | 2.0 %                              | 2.0 %                                 | ASTM D638 |
| Tensile Modulus         | 10.3 GPa                           | 1500 ksi                              | ASTM D638 |
| Flexural Strength       | 234 MPa                            | 34000 psi                             | ASTM D790 |
| Flexural Modulus        | 11.0 GPa                           | 1600 ksi                              | ASTM D790 |
| Izod Impact, Notched    | 0.961 J/cm<br>@Temperature 23.0 °C | 1.80 ft-lb/in<br>@Temperature 73.4 °F | ASTM D256 |

| Thermal Properties                          | Metric | English | Comments  |
|---|--------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 213 °C | 415 °F  | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 210 °C | 410 °F  | ASTM D648 |

| Processing Properties  | Metric | English | Comments |
|------------------------|--------|---------|----------|
| Processing Temperature | 382 °C | 720 °F  |          |

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