

## Oxford Polymers Oxnilon 66- 13GF 13% Glass Fiber Filled Nylon 66 for Injection Molding

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 10% Glass Fiber Filled

**Material Notes:**

13% Glass Fiber Filled Nylon 66 for Injection Molding Information provided by Oxford Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Oxford-Polymers-Oxnilon-66-13GF-13-Glass-Fiber-Filled-Nylon-66-for-Injection-Molding.php](http://www.lookpolymers.com/polymer_Oxford-Polymers-Oxnilon-66-13GF-13-Glass-Fiber-Filled-Nylon-66-for-Injection-Molding.php)

| Physical Properties   | Metric       | English      | Comments  |
|-----------------------|--------------|--------------|-----------|
| Specific Gravity      | 1.20 g/cc    | 1.20 g/cc    | ASTM D792 |
| Filler Content        | 13 %         | 13 %         |           |
| Linear Mold Shrinkage | 0.0050 cm/cm | 0.0050 in/in | ASTM D955 |

| Mechanical Properties     | Metric                             | English                                | Comments  |
|---------------------------|------------------------------------|--|-----------|
| Tensile Strength at Break | 110 MPa                            | 16000 psi                              | ASTM D638 |
| Tensile Strength, Yield   | 110 MPa                            | 16000 psi                              | ASTM D638 |
| Elongation at Break       | 3.0 %                              | 3.0 %                                  | ASTM D638 |
| Flexural Strength         | 159 MPa                            | 23000 psi                              | ASTM D790 |
| Flexural Modulus          | 4.14 GPa                           | 600 ksi                                | ASTM D790 |
| Izod Impact, Notched      | 0.481 J/cm<br>@Temperature 23.0 °C | 0.900 ft-lb/in<br>@Temperature 73.4 °F | ASTM D256 |

| Thermal Properties                          | Metric | English | Comments  |
|---|--------|---------|-----------|
| Melting Point                               | 255 °C | 491 °F  |           |
| Deflection Temperature at 1.8 MPa (264 psi) | 242 °C | 468 °F  | ASTM D648 |

| Processing Properties  | Metric       | English      | Comments |
|------------------------|--------------|--------------|----------|
| Processing Temperature | 288 - 304 °C | 550 - 580 °F |          |

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