

Oxford Polymers 30GF 30% Glass Fiber Filled Polycarbonate for Injection Molding

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 30% Glass Filled

Material Notes:

30% Glass Fiber Filled Polycarbonate for Injection Molding Information provided by Oxford Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Oxford-Polymers-30GF-30-Glass-Fiber-Filled-Polycarbonate-for-Injection-Molding.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|-----------|
| Specific Gravity | 1.43 g/cc | 1.43 g/cc | ASTM D792 |
| Filler Content | 30 % | 30 % | |
| Linear Mold Shrinkage | 0.0020 cm/cm | 0.0020 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-----------------------------------|---------------------------------------|-----------|
| Tensile Strength at Break | 131 MPa | 19000 psi | ASTM D638 |
| Elongation at Break | 4.0 % | 4.0 % | ASTM D638 |
| Tensile Modulus | 8.62 GPa | 1250 ksi | ASTM D638 |
| Flexural Strength | 159 MPa | 23000 psi | ASTM D790 |
| Flexural Modulus | 7.58 GPa | 1100 ksi | ASTM D790 |
| Compressive Strength | 124 MPa | 18000 psi | ASTM D695 |
| Izod Impact, Notched | 1.07 J/cm @Temperature 23.0 °C | 2.00 ft-lb/in @Temperature 73.4 °F | ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|-----------|
| Deflection Temperature at 0.46 MPa (66 psi) | 152 °C | 305 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 146 °C | 295 °F | ASTM D648 |

| Processing Properties | Metric | English | Comments |
|------------------------|---------|-----------|---------------|
| Processing Temperature | 293 °C | 560 °F | |
| Back Pressure | 103 MPa | 15000 psi | Mold pressure |

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