

PolyOne Edgetek® PF-30GF/000 Polysulfone, Glass Filled (discontinued **)

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

Description/Features: Glass Fiber Reinforced UL 94 V0 PolyOne First Choice Information provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-PF-30GF000-Polysulfone-Glass-Filled-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|-----------------------|------------------------------|-------------------------------|-----------------------------|
| Specific Gravity | 1.46 g/cc | 1.46 g/cc | ASTM D792 |
| Water Absorption | 0.20 % @Thickness 3.17 mm | 0.20 % @Thickness 0.125 in | 24 hr. Immersion; ASTM D570 |
| Linear Mold Shrinkage | 0.0020 - 0.0030 cm/cm | 0.0020 - 0.0030 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--|--|---|
| Tensile Strength, Yield | 121 MPa | 17500 psi | Type 1 - Rigids, Yield, 0.2 in/min; ASTM D638 |
| Elongation at Break | 3.0 - 4.0 % | 3.0 - 4.0 % | Type 1 - Rigids, 0.2 in/min; ASTM D638 |
| Tensile Modulus | 8.96 GPa | 1300 ksi | Type 1 - Rigids, 0.2 in/min; ASTM D638 |
| Flexural Strength | 165 MPa | 24000 psi | ASTM D790 |
| Flexural Modulus | 7.58 GPa | 1100 ksi | ASTM D790 |
| Izod Impact, Notched | 0.747 J/cm @Thickness 3.17 mm, Temperature 23.0 °C | 1.40 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F | Method A, Injection Molded; ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 182 °C | 360 °F | Unannealed; ASTM D648 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|----------|
| Melt Temperature | 332 - 371 °C | 630 - 700 °F | Molding |

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