

**PolyOne Edgetek® PF- 10GF/000 Polysulfone, Glass Filled (discontinued \*\*)**

Category : Polymer , Thermoplastic , Polysulfone (PSU)

**Material Notes:**

Description/Features:Glass Fiber ReinforcedUL 94 V0PolyOne First ChoiceInformation provided by PolyOne Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Edgetek-PF-10GF000-Polysulfone-Glass-Filled-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_PolyOne-Edgetek-PF-10GF000-Polysulfone-Glass-Filled-nbspdiscontinued-.php)

| Physical Properties   | Metric                       | English                       | Comments                    |
|-----------------------|------------------------------|-------------------------------|-----------------------------|
| Specific Gravity      | 1.30 g/cc                    | 1.30 g/cc                     | ASTM D792                   |
| Water Absorption      | 0.20 %<br>@Thickness 3.17 mm | 0.20 %<br>@Thickness 0.125 in | 24 hr. Immersion; ASTM D570 |
| Linear Mold Shrinkage | 0.0040 - 0.0050 cm/cm        | 0.0040 - 0.0050 in/in         | ASTM D955                   |

| Mechanical Properties   | Metric                                                   | English                                                      | Comments                                      |
|-------------------------|----------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------|
| Tensile Strength, Yield | 82.7 MPa                                                 | 12000 psi                                                    | Type 1 - Rigids, Yield, 0.2 in/min; ASTM D638 |
| Elongation at Break     | 1.0 - 3.0 %                                              | 1.0 - 3.0 %                                                  | Type 1 - Rigids, 0.2 in/min; ASTM D638        |
| Tensile Modulus         | 5.17 GPa                                                 | 750 ksi                                                      | Type 1 - Rigids, 0.2 in/min; ASTM D638        |
| Flexural Strength       | 103 MPa                                                  | 15000 psi                                                    | ASTM D790                                     |
| Flexural Modulus        | 5.17 GPa                                                 | 750 ksi                                                      | ASTM D790                                     |
| Izod Impact, Notched    | 0.534 J/cm<br>@Thickness 3.17 mm,<br>Temperature 23.0 °C | 1.00 ft-lb/in<br>@Thickness 0.125 in,<br>Temperature 73.4 °F | Method A, Injection Molded; ASTM D256         |

| Thermal Properties                          | Metric | English | Comments              |
|---------------------------------------------|--------|---------|-----------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 177 °C | 350 °F  | Unannealed; ASTM D648 |

| Processing Properties | Metric       | English      | Comments |
|-----------------------|--------------|--------------|----------|
| Melt Temperature      | 343 - 382 °C | 650 - 720 °F | Molding  |

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