

PolyOne Stat-Tech™ PI-10SS/000 Polyetherimide - 10% Stainless Steel Fiber (discontinued **)

Category : Polymer , Thermoplastic , Polyetherimide (PEI)

Material Notes:

Data provided by PolyOne.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Stat-Tech-PI-10SS000-Polyetherimide-10-Stainless-Steel-Fiber-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|-----------------------|---|--|-------------------|
| Density | 1.389 g/cc | 0.05018 lb/in ³ | ASTM D792 |
| Water Absorption | 0.23 % | 0.23 % | 24 hrs. ASTM D570 |
| Linear Mold Shrinkage | 0.0060 - 0.0070 cm/cm @Thickness 3.17 mm | 0.0060 - 0.0070 in/in @Thickness 0.125 in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|----------------------------------|---------------------------------------|-----------|
| Tensile Strength, Ultimate | 103 MPa | 14900 psi | ASTM D638 |
| Elongation at Break | 2.0 - 4.0 % | 2.0 - 4.0 % | ASTM D638 |
| Tensile Modulus | 3.30 GPa | 479 ksi | ASTM D638 |
| Flexural Yield Strength | 152 MPa | 22000 psi | ASTM D790 |
| Flexural Modulus | 3.30 GPa | 479 ksi | ASTM D790 |
| Izod Impact, Notched | 0.530 J/cm @Thickness 6.35 mm | 0.993 ft-lb/in @Thickness 0.250 in | ASTM D256 |

| Electrical Properties | Metric | English | Comments |
|------------------------|--------------------|--------------------|-----------|
| Electrical Resistivity | 10.0 - 1000 ohm-cm | 10.0 - 1000 ohm-cm | ASTM D257 |
| Surface Resistance | 10 - 1000 ohm | 10 - 1000 ohm | ASTM D257 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|----------|
| Melt Temperature | 338 - 371 °C | 640 - 700 °F | Stock |
| Mold Temperature | 135 - 149 °C | 275 - 300 °F | |
| Drying Temperature | 135 °C | 275 °F | |

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