

PolyOne Edgetek® SF-45GF/000 Polyphenylene Sulfide (PPS), Glass Filled (discontinued **)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

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-SF-45GF000-Polyphenylene-Sulfide-PPS-Glass-Filled-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|-----------------------------|
| Specific Gravity | 1.70 g/cc | 1.70 g/cc | ASTM D792 |
| Water Absorption | 0.030 % | 0.030 % | 24 hr. Immersion; ASTM D570 |
| Linear Mold Shrinkage | 0.0010 cm/cm | 0.0010 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|--|--|--|
| Hardness, Rockwell R | 123 | 123 | ASTM D785 |
| Tensile Strength, Ultimate | 169 MPa | 24500 psi | Type 1 - Rigids, 0.2 in/min; ASTM D638 |
| Elongation at Break | 3.0 % | 3.0 % | Type 1 - Rigids, 0.2 in/min; ASTM D638 |
| Tensile Modulus | 15.2 GPa | 2200 ksi | Type 1 - Rigids, 0.2 in/min; ASTM D638 |
| Flexural Strength | 241 MPa | 35000 psi | ASTM D790 |
| Flexural Modulus | 15.2 GPa | 2200 ksi | ASTM D790 |
| Compressive Strength | 179 MPa | 26000 psi | ASTM D695 |
| Izod Impact, Notched | 0.908 J/cm @Thickness 6.35 mm, Temperature 23.0 °C | 1.70 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F | Method A, Injection Molded; ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------------------------------------|--|------------------------------------|
| CTE, linear | 25.2 µm/m-°C @Temperature 20.0 °C | 14.0 µin/in-°F @Temperature 68.0 °F | ASTM D696 |
| Thermal Conductivity | >= 0.432 W/m-K | >= 3.00 BTU-in/hr-ft ² -°F | ASTM C177 |
| Deflection Temperature at 0.46 MPa (66 psi) | 282 °C | 540 °F | Annealed, 0.125 in bars; ASTM D648 |
| Deflection Temperature at 1.8 MPa | | | Annealed, 0.125 in bars; ASTM D648 |

| (264 psi) Thermal Properties | 266 °C Metric | 510 °F English | Comments |
|---------------------------------|------------------|-------------------|---|
| Flammability, UL94 | V-0 | V-0 | All Colors; 0.028 in.; PolyOne Internal |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | ASTM D257 |

| Processing Properties | Metric | English | Comments |
|-----------------------|-----------|-----------|----------|
| Melt Temperature | 316 °C | 600 °F | Molding |
| Mold Temperature | >= 121 °C | >= 250 °F | |
| Drying Temperature | 121 °C | 250 °F | |
| Dry Time | 2 hour | 2 hour | |

| Descriptive Properties | Value | Comments |
|------------------------|---------|----------|
| Product Form | Pellets | |

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