

PolyOne Edgetek® SF-35GF-25MN/000 L Polyphenylene Sulfide (PPS), Glass/Mineral Filled (discontinued **)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

Description/Features: Glass/Mineral Reinforced PTFE Lubricated 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-35GF-25MN000-L-Polyphenylene-Sulfide-PPS-GlassMineral-Filled-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------------------|-----------------------|-----------------------------|
| Specific Gravity | 1.88 g/cc | 1.88 g/cc | ASTM D792 |
| Water Absorption | 0.030 % | 0.030 % | 24 hr. Immersion; ASTM D570 |
| Linear Mold Shrinkage | 0.0010 - 0.0020 cm/cm | 0.0010 - 0.0020 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|--|---|--|
| Hardness, Rockwell R | 121 | 121 | ASTM D785 |
| Tensile Strength, Ultimate | 114 MPa | 16500 psi | Type 1 - Rigids, 0.2 in/min; ASTM D638 |
| Elongation at Break | 2.0 % | 2.0 % | 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 | 165 MPa | 24000 psi | ASTM D790 |
| Flexural Modulus | 15.2 GPa | 2200 ksi | ASTM D790 |
| Izod Impact, Notched | 0.427 J/cm @Thickness 6.35 mm, Temperature 23.0 °C | 0.800 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F | Method A, Injection Molded; ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------------------------------------|--|------------------------------------|
| CTE, linear | 19.8 µm/m-°C @Temperature 20.0 °C | 11.0 µin/in-°F @Temperature 68.0 °F | ASTM D696 |
| Deflection Temperature at 1.8 MPa (264 psi) | 260 °C | 500 °F | Annealed, 0.125 in bars; ASTM D648 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity | 5.00e+15 ohm-cm | 5.00e+15 ohm-cm | ASTM D257 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|----------|
| Processing Properties | Metric | English | Comments |
| Melt Temperature | 299 - 332 °C | 570 - 630 °F | Molding |
| Mold Temperature | 121 - 149 °C | 250 - 300 °F | |
| Drying Temperature | 121 °C | 250 °F | |
| Dry Time | 2 hour | 2 hour | |

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

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