

## HiFill® PPSU HF NAT

Techmer Polymer Modifiers - *Polyphenylsulfone*

### General Information

#### General

|                   |                      |
|-------------------|----------------------|
| Material Status   | • Commercial: Active |
| Availability      | • North America      |
| Features          | • High Flow          |
| Appearance        | • Colors Available   |
| Forms             | • Pellets            |
| Processing Method | • Injection Molding  |

### Properties <sup>1</sup>

| Physical                                                | Nominal Value | Unit      | Test Method |
|---------------------------------------------------------|---------------|-----------|-------------|
| Density / Specific Gravity                              | 1.28          |           | ASTM D792   |
| Melt Mass-Flow Rate (MFR)                               | 7.0           | g/10 min  | ASTM D1238  |
| Melt Volume-Flow Rate (MVR) (360°C/10.0 kg)             | 75 to 85      | cm³/10min | ISO 1133    |
| Molding Shrinkage - Flow (0.125 in)                     | 7.0E-3        | in/in     | ASTM D955   |
| Water Absorption (24 hr)                                | 0.37          | %         | ASTM D570   |
| Mechanical                                              | Nominal Value | Unit      | Test Method |
| Tensile Strength                                        | 10000         | psi       | ASTM D638   |
| Tensile Elongation (Yield)                              | 7.0           | %         | ASTM D638   |
| Flexural Modulus                                        | 350000        | psi       | ASTM D790   |
| Flexural Strength                                       | 12400         | psi       | ASTM D790   |
| Impact                                                  | Nominal Value | Unit      | Test Method |
| Notched Izod Impact (0.125 in)                          | 11            | ft·lb/in  | ASTM D256   |
| Hardness                                                | Nominal Value | Unit      | Test Method |
| Rockwell Hardness (R-Scale)                             | 120           |           | ASTM D785   |
| Thermal                                                 | Nominal Value | Unit      | Test Method |
| Deflection Temperature Under Load (264 psi, Unannealed) | 405           | °F        | ASTM D648   |
| CLTE - Flow                                             | 4.0E-5        | in/in/°F  | ASTM D696   |
| Electrical                                              | Nominal Value | Unit      | Test Method |
| Volume Resistivity                                      | 1.0E+15       | ohms·cm   | ASTM D257   |
| Dielectric Strength (Method A (Short-Time))             | 470           | V/mil     | ASTM D149   |
| Flammability                                            | Nominal Value | Unit      | Test Method |
| Flame Rating (0.031 in)                                 | V-0           |           | UL 94       |

