

## HiFill FR® PA4/6 FR HS

Techmer Polymer Modifiers - *Polyamide 46*

### General Information

#### General

|                   |                                     |
|-------------------|-------------------------------------|
| Material Status   | • Commercial: Active                |
| Availability      | • North America                     |
| Additive          | • Heat Stabilizer                   |
| Features          | • Flame Retardant • Heat Stabilized |
| Appearance        | • Colors Available                  |
| Forms             | • Pellets                           |
| Processing Method | • Injection Molding                 |

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

| Physical                                                | Nominal Value | Unit     | Test Method |
|---------------------------------------------------------|---------------|----------|-------------|
| Density / Specific Gravity                              | 1.35          |          | ASTM D792   |
| Molding Shrinkage - Flow (0.125 in)                     | 0.015         | in/in    | ASTM D955   |
| Water Absorption (24 hr)                                | 1.2           | %        | ASTM D570   |
| Mechanical                                              | Nominal Value | Unit     | Test Method |
| Tensile Strength (Yield)                                | 8700          | psi      | ASTM D638   |
| Tensile Elongation (Break)                              | 20            | %        | ASTM D638   |
| Flexural Modulus                                        | 360000        | psi      | ASTM D790   |
| Flexural Strength                                       | 16000         | psi      | ASTM D790   |
| Impact                                                  | Nominal Value | Unit     | Test Method |
| Notched Izod Impact (73°F, 0.125 in)                    | 1.5           | ft·lb/in | ASTM D256   |
| Hardness                                                | Nominal Value | Unit     | Test Method |
| Rockwell Hardness (R-Scale)                             | 90            |          | ASTM D785   |
| Thermal                                                 | Nominal Value | Unit     | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed)  | 520           | °F       | ASTM D648   |
| Deflection Temperature Under Load (264 psi, Unannealed) | 320           | °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))             | 500           | V/mil    | ASTM D149   |
| Flammability                                            | Nominal Value | Unit     | Test Method |
| Flame Rating (0.06 in)                                  | V-0           |          | UL 94       |
| Additional Information                                  | Nominal Value | Unit     | Test Method |
| TPCI #                                                  | 8277150       |          |             |

