

# HiFill® PPS 0237 A

Polyphenylene Sulfide

Techmer Engineered Solutions

## Message:

HiFill® PPS 0237 A is a polyphenylene sulfide (PPS) product. It can be processed by injection molding and is available in North America. The main characteristics are: flame retardant/rated flame.

| General Information                 |                   |                   |             |
|-------------------------------------|-------------------|-------------------|-------------|
| Features                            | High density      |                   |             |
| Appearance                          | Available colors  |                   |             |
| Forms                               | Particle          |                   |             |
| Processing Method                   | Injection molding |                   |             |
| Physical                            | Nominal Value     | Unit              | Test Method |
| Specific Gravity                    | 2.36              | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm)  | 0.30              | %                 | ASTM D955   |
| Water Absorption (24 hr)            | 0.020             | %                 | ASTM D570   |
| Hardness                            | Nominal Value     | Unit              | Test Method |
| Rockwell Hardness (R-Scale)         | 100               |                   | ASTM D785   |
| Mechanical                          | Nominal Value     | Unit              | Test Method |
| Tensile Strength (Break)            | 103               | MPa               | ASTM D638   |
| Tensile Elongation (Break)          | 1.0               | %                 | ASTM D638   |
| Flexural Modulus                    | 12400             | MPa               | ASTM D790   |
| Flexural Strength                   | 152               | MPa               | ASTM D790   |
| Impact                              | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 37                | J/m               | ASTM D256   |
| Thermal                             | Nominal Value     | Unit              | Test Method |
| Deflection Temperature Under Load   |                   |                   | ASTM D648   |
| 0.45 MPa, not annealed              | 280               | °C                | ASTM D648   |
| 1.8 MPa, not annealed               | 266               | °C                | ASTM D648   |
| CLTE - Flow                         | 1.6E-5            | cm/cm/°C          | ASTM D696   |
| Thermal Conductivity                | 1.7               | W/m/K             | ASTM C177   |
| RTI Elec (1.50 mm)                  | 220               | °C                | UL 746      |
| Electrical                          | Nominal Value     | Unit              | Test Method |
| Volume Resistivity                  | 1.0E+4 - 1.0E+6   | ohms · cm         | ASTM D257   |
| Flammability                        | Nominal Value     | Unit              | Test Method |
| Flame Rating                        |                   |                   | UL 94       |
| 0.399 mm                            | V-0               |                   | UL 94       |
| 1.00 mm                             | 5VA               |                   | UL 94       |
| Injection                           | Nominal Value     | Unit              |             |
| Drying Temperature                  | 163               | °C                |             |

|                        |           |    |
|------------------------|-----------|----|
| Drying Time            | 4.0       | hr |
| Rear Temperature       | 288 - 304 | °C |
| Middle Temperature     | 316 - 343 | °C |
| Front Temperature      | 310 - 332 | °C |
| Nozzle Temperature     | 316 - 332 | °C |
| Processing (Melt) Temp | 324 - 338 | °C |
| Mold Temperature       | 129 - 163 | °C |

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