

## Technical Data Sheet

**Schulatec PPS GF30 GRY 967955**

Polyphenylene Sulfide

**Product Description**

30% glass fiber reinforced PPS

**Processing Method** Injection Molding

| <b>Typical Properties</b>   | <b>Nominal Value</b> | <b>Units</b>            | <b>Test Method</b> |
|---|----------------------|-------------------------|--------------------|
| <b>Physical</b>   |                      |                         |                    |
| Melt Volume Flow Rate, (300 °C/5.0 kg)                              | 45                   | cm <sup>3</sup> /10 min | ISO 1133           |
| Density, (Method A)   | 1.55                 | g/cm <sup>3</sup>       | ISO 1183           |
| <b>Mechanical</b>   |                      |                         |                    |
| Tensile Strain at Break, (Type 1A, 5 mm/min)                        | 1.8                  | %                       | ISO 527-2          |
| Tensile Stress at Break, (Type 1A, 5 mm/min)                        | 160                  | MPa                     | ISO 527-2          |
| Tensile Modulus, (1 mm/min, Type 1A)                                | 11000                | MPa                     | ISO 527-1          |
| <b>Impact</b>   |                      |                         |                    |
| Charpy Impact Strength - Notched, (Type 1, Edgewise, Notch A)       | 10                   | kJ/m <sup>2</sup>       | ISO 179            |
| Charpy Impact Strength - Unnotched                                  | 25                   | kJ/m <sup>2</sup>       | ISO 179-1/1eU      |
| <b>Thermal</b>  |                      |                         |                    |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 265                  | °C                      | ISO 75-2/A         |
| <b>Electrical</b>   |                      |                         |                    |
| Comparative Tracking Index (CTI)                                    | 175                  | V                       | IEC 60112          |
| <b>Flammable</b>  |                      |                         |                    |
| Burning Rate  |                      |                         |                    |
| (2.00 mm)   | 0.0                  | mm/min                  | FMVSS 302          |
| (2.00 mm)   | 0.0                  | mm/min                  | ISO 3795           |
| Glow Wire Flammability Index, (1.5 mm)                              | 960                  | °C                      | IEC 60695-2-12     |
| Glow Wire Ignition Temperature, (1.5 sec)                           | 850                  | °C                      | IEC 60695-2-13     |
| <b>UL Information</b>   |                      |                         |                    |
| Flame Rating  | V-0                  |                         | UL 94              |

| <b>Injection Parameters</b> | <b>Nominal Value</b> | <b>Units</b> |
|-----------------------------|----------------------|--------------|
| Drying Time                 | 3.0 to 4.0           | hr           |
| Drying Temperature          | 130 to 140           | °C           |
| Screw Speed                 | 40 to 100            | rpm          |
| Processing (Melt) Temp      | 300 to 330           | °C           |
| Mold Temperature            | 140                  | °C           |