

## Technical Data Sheet

### Schulamid 66 GF 40 BLK 968001



Polyamide 66

#### Product Description

40% glass fiber reinforced PA 66

**Processing Method** Injection Molding

**Filler/Reinforcement** Glass Fiber, 40%

| Typical Properties                                                   | Nominal Value | Units              | Test Method    |
|----------------------------------------------------------------------|---------------|--------------------|----------------|
| <b>Physical</b>                                                      |               |                    |                |
| Density, (Method A)                                                  | 1.45          | g/cm <sup>3</sup>  | ISO 1183       |
| Viscosity Number                                                     | 145           | cm <sup>3</sup> /g | ISO 307        |
| <b>Mechanical</b>                                                    |               |                    |                |
| Tensile Strain at Break, (Type 1A, 5 mm/min)                         | 2.2           | %                  | ISO 527-2      |
| Tensile Stress at Break, (Type 1A, 5 mm/min)                         | 210           | MPa                | ISO 527-2      |
| Tensile Modulus, (1 mm/min, Type 1A)                                 | 13000         | MPa                | ISO 527-1      |
| <b>Impact</b>                                                        |               |                    |                |
| Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A) | 18            | kJ/m <sup>2</sup>  | ISO 179        |
| Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)        | 95            | kJ/m <sup>2</sup>  | ISO 179        |
| <b>Thermal</b>                                                       |               |                    |                |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)  | 250           | °C                 | ISO 75-2/B     |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)  | 250           | °C                 | ISO 75-2/A     |
| <b>Electrical</b>                                                    |               |                    |                |
| Volume Resistivity                                                   | >1.0E+13      | ohm*m              | IEC 62631-3-1  |
| Comparative Tracking Index (CTI)                                     | 450           | V                  | IEC 60112      |
| Surface Resistivity                                                  | >1.0E+15      | ohm                | IEC 60093      |
| <b>Flammable</b>                                                     |               |                    |                |
| Burning Rate                                                         |               |                    |                |
| (2.00 mm)                                                            | 30            | mm/min             | ISO 3795       |
| (2.00 mm)                                                            | 30            | mm/min             | FMVSS 302      |
| Glow Wire Flammability Index                                         | 600           | °C                 | IEC 60695-2-12 |

| Injection Parameters   | Nominal Value | Units |
|------------------------|---------------|-------|
| Drying Time            | 3.0 to 4.0    | hr    |
| Drying Temperature     | 80            | °C    |
| Suggested Max Moisture | 0.040 to 0.10 | %     |
| Processing (Melt) Temp | 280 to 300    | °C    |
| Mold Temperature       | 60 to 120     | °C    |