

## Technical Data Sheet

### Schulamid 6 BNT 3000 F LS GRN966177



Polyamide 6

#### Product Description

30% glass fiber reinforced Polyamid 6

|                      |                   |
|----------------------|-------------------|
| Processing Method    | Injection Molding |
| Filler/Reinforcement | Glass Fiber, 30%  |
| Resin ID             | PAM 6 GF30 UV     |

| Typical Properties                                                  | Nominal Value | Units              | Test Method |
|---------------------------------------------------------------------|---------------|--------------------|-------------|
| <b>Physical</b>                                                     |               |                    |             |
| Density, (Method A)                                                 | 1.36          | g/cm <sup>3</sup>  | ISO 1183    |
| Viscosity Number                                                    | 140           | cm <sup>3</sup> /g | ISO 307     |
| <b>Mechanical</b>                                                   |               |                    |             |
| Tensile Strain at Break, (Type 1A, 5 mm/min)                        | 3.3           | %                  | ISO 527-2   |
| Flexural Modulus, (2.0 mm/min)                                      | 8450          | MPa                | ISO 178     |
| Tensile Stress at Break, (Type 1A, 5 mm/min)                        | 183           | MPa                | ISO 527-2   |
| Tensile Modulus, (1 mm/min, Type 1A)                                | 9500          | MPa                | ISO 527-1   |
| Flexural Stress, (2.0 mm/min, 4.0%)                                 | 255           | MPa                | ISO 178     |
| <b>Impact</b>                                                       |               |                    |             |
| Charpy Impact Strength - Notched                                    |               |                    |             |
| (23 °C, Type 1, Edgewise, Notch A)                                  | 12            | kJ/m <sup>2</sup>  | ISO 179     |
| (-30 °C, Type 1, Edgewise, Notch A)                                 | 9.0           | kJ/m <sup>2</sup>  | ISO 179     |
| Charpy Impact Strength - Unnotched                                  |               |                    |             |
| (23 °C, Type 1, Edgewise)                                           | 90            | kJ/m <sup>2</sup>  | ISO 179     |
| (-30 °C, Type 1, Edgewise)                                          | 70            | kJ/m <sup>2</sup>  | ISO 179     |
| <b>Thermal</b>                                                      |               |                    |             |
| Vicat Softening Temperature, (B (50N), 50 °C/h)                     | 210           | °C                 | ISO 306     |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise) | 220           | °C                 | ISO 75-2/B  |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 200           | °C                 | ISO 75-2/A  |
| <b>Electrical</b>                                                   |               |                    |             |
| Volume Resistivity                                                  | >1.0E+16      | ohm*cm             | IEC 60093   |
| Surface Resistivity                                                 | >1.0E+16      | ohm                | IEC 60093   |

| 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 | 250 to 280    | °C    |
| Mold Temperature       | 60 to 100     | °C    |