

## Technical Data Sheet

### Schulamid 66 GF35 H4 BLK968017



Polyamide 66

#### Product Description

35% glass fiber reinforced PA 66, heat stabilized, electrically neutral and free of DPPD.

**Processing Method** Injection Molding

**Attribute** Heat Stabilized

**Filler/Reinforcement** Glass Fiber, 35%

| Typical Properties                                | Nominal Value | Units              | Test Method |
|---------------------------------------------------|---------------|--------------------|-------------|
| <b>Physical</b>                                   |               |                    |             |
| Density, (Method A)                               | 1.40          | 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)                               | 2.5           | %                  | ISO 527-2   |
| (Type 1A, 5 mm/min) - Conditioned                 | 5.0           | %                  | ISO 527-2   |
| Tensile Stress at Break                           |               |                    |             |
| (Type 1A, 5 mm/min)                               | 190           | MPa                | ISO 527-2   |
| (Type 1A, 5 mm/min) - Conditioned                 | 140           | MPa                | ISO 527-2   |
| Tensile Modulus                                   |               |                    |             |
| (1 mm/min, Type 1A)                               | 11000         | MPa                | ISO 527-1   |
| (1 mm/min, Type 1A) - Conditioned                 | 8000          | MPa                | ISO 527-1   |
| <b>Impact</b>                                     |               |                    |             |
| Charpy Impact Strength - Notched                  |               |                    |             |
| (23 °C, Type 1, Edgewise, Notch A)                | 13            | kJ/m <sup>2</sup>  | ISO 179     |
| (-30 °C, Type 1, Edgewise, Notch A)               | 12            | kJ/m <sup>2</sup>  | ISO 179     |
| (23 °C, Type 1, Edgewise, Notch A) - Conditioned  | 20            | kJ/m <sup>2</sup>  | ISO 179     |
| (-30 °C, Type 1, Edgewise, Notch A) - Conditioned | 12            | 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)                        | 75            | kJ/m <sup>2</sup>  | ISO 179     |
| (23 °C, Type 1, Edgewise) - Conditioned           | 95            | kJ/m <sup>2</sup>  | ISO 179     |
| (-30 °C, Type 1, Edgewise) - Conditioned          | 85            | kJ/m <sup>2</sup>  | ISO 179     |
| <b>Hardness</b>                                   |               |                    |             |
| Ball Indentation Hardness, (H 358/30)             | 250           | MPa                | ISO 2039-1  |
| <b>Thermal</b>                                    |               |                    |             |

|                                                                        |             |        |                |
|------------------------------------------------------------------------|-------------|--------|----------------|
| Deflection Temperature Under Load Unannealed (0.45 MPa),<br>(Flatwise) | 250         | °C     | ISO 75-2/B     |
| Deflection Temperature Under Load Unannealed (1.80 MPa),<br>(Flatwise) | 250         | °C     | ISO 75-2/A     |
| <b>Electrical</b>                                                      |             |        |                |
| Volume Resistivity                                                     | >1.0E+13    | ohm*m  | IEC 62631-3-1  |
| - Conditioned                                                          | 10000000000 | 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 | FMVSS 302      |
| (2.00 mm)                                                              | 30          | mm/min | ISO 3795       |
| Glow Wire Flammability Index                                           | 600         | °C     | IEC 60695-2-12 |

| <b>Injection Parameters</b> |  | <b>Nominal Value</b> | <b>Units</b> |
|-----------------------------|--|----------------------|--------------|
| 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           |