

## Technical Data Sheet

### Schulamid 66 MV3 H4 BLK968001



Polyamide 66

#### Product Description

medium viscosity PA 66, heat stabilized

**Processing Method** Injection Molding

**Attribute** Heat Stabilized; Medium Viscosity

**Additive** Heat Stabilizer

| Typical Properties                                                  | Nominal Value | Units              | Test Method |
|---------------------------------------------------------------------|---------------|--------------------|-------------|
| <b>Physical</b>                                                     |               |                    |             |
| Density, (Method A)                                                 | 1.14          | g/cm <sup>3</sup>  | ISO 1183    |
| Viscosity Number                                                    | 145           | cm <sup>3</sup> /g | ISO 307     |
| <b>Mechanical</b>                                                   |               |                    |             |
| Tensile Stress at Yield                                             |               |                    |             |
| (Type 1A, 50 mm/min)                                                | 90.0          | MPa                | ISO 527-2   |
| (Type 1A, 50 mm/min) - Conditioned                                  | 70.0          | MPa                | ISO 527-2   |
| Tensile Strain at Yield                                             |               |                    |             |
| (Type 1A, 50 mm/min)                                                | 4.0           | %                  | ISO 527-2   |
| (Type 1A, 50 mm/min) - Conditioned                                  | 15            | %                  | ISO 527-2   |
| Tensile Modulus                                                     |               |                    |             |
| (1 mm/min, Type 1A)                                                 | 3000          | MPa                | ISO 527-1   |
| (1 mm/min, Type 1A) - Conditioned                                   | 1500          | MPa                | ISO 527-1   |
| <b>Impact</b>                                                       |               |                    |             |
| Charpy Impact Strength - Notched                                    |               |                    |             |
| (23 °C, Type 1, Edgewise, Notch A)                                  | 9.0           | kJ/m <sup>2</sup>  | ISO 179     |
| (-30 °C, Type 1, Edgewise, Notch A)                                 | 7.0           | kJ/m <sup>2</sup>  | ISO 179     |
| (23 °C, Type 1, Edgewise, Notch A) - Conditioned                    | 13            | kJ/m <sup>2</sup>  | ISO 179     |
| (-30 °C, Type 1, Edgewise, Notch A) - Conditioned                   | 5.0           | kJ/m <sup>2</sup>  | ISO 179     |
| Charpy Impact Strength - Unnotched                                  |               |                    |             |
| (23 °C, Type 1, Edgewise)                                           | 150           | kJ/m <sup>2</sup>  | ISO 179     |
| (-30 °C, Type 1, Edgewise)                                          | 95            | kJ/m <sup>2</sup>  | ISO 179     |
| (23 °C, Type 1, Edgewise) - Conditioned                             | No Break      |                    | ISO 179     |
| (-30 °C, Type 1, Edgewise) - Conditioned                            | No Break      |                    | ISO 179     |
| <b>Thermal</b>                                                      |               |                    |             |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise) | 225           | °C                 | ISO 75-2/B  |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 90.0          | °C                 | ISO 75-2/A  |

|                                        |                  |        |                          |
|----------------------------------------|------------------|--------|--------------------------|
| <b>Electrical</b>                      |                  |        |                          |
| Volume Resistivity                     | >1.0E+13         | ohm*m  | IEC 62631-3-1            |
| - Conditioned                          | 10000000000<br>0 | ohm*m  | IEC 62631-3-1            |
| Comparative Tracking Index (CTI)       | 600              | V      | IEC 60112                |
| Surface Resistivity                    | >1.0E+15         | ohm    | IEC 60093                |
| <b>Flammable</b>                       |                  |        |                          |
| Burning Rate                           |                  |        |                          |
| (2.00 mm)                              | 0.0              | mm/min | ISO 3795                 |
| (2.00 mm)                              | 0.0              | mm/min | FMVSS 302                |
| Glow Wire Flammability Index           | 925              | °C     | IEC 60695-2-12           |
| <b>UL Information</b>                  |                  |        |                          |
| Flammability Classification, (0.75 mm) | V-2              |        | IEC 60695-11-10, -<br>20 |

| <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<br>0.10     | %            |
| Processing (Melt) Temp      | 270 to 290           | °C           |
| Mold Temperature            | 60 to 100            | °C           |