

Technical Data Sheet

**Schulamid 66 GF7 HR NAT**



Polyamide 66

**Product Description**

7% glass fiber reinforced PA 66, hydrolysis stabilized

|                             |                      |
|-----------------------------|----------------------|
| <b>Processing Method</b>    | Injection Molding    |
| <b>Additive</b>             | Hydrolysis Resistant |
| <b>Filler/Reinforcement</b> | Glass Fiber, 7.0%    |

| Typical Properties   | Nominal Value | Units              | Test Method          |
|--|---------------|--------------------|----------------------|
| <b>Physical</b>  |               |                    |                      |
| Density, (Method A)  | 1.18          | g/cm <sup>3</sup>  | ISO 1183             |
| Viscosity Number   | 155           | cm <sup>3</sup> /g | ISO 307              |
| <b>Mechanical</b>  |               |                    |                      |
| Tensile Strain at Break, (Type 1A, 5 mm/min)                         | 3.5           | %                  | ISO 527-2            |
| Tensile Stress at Break, (Type 1A, 5 mm/min)                         | 110           | MPa                | ISO 527-2            |
| Tensile Modulus, (1 mm/min, Type 1A)                                 | 4500          | MPa                | ISO 527-1            |
| <b>Impact</b>  |               |                    |                      |
| Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A) | 7.0           | kJ/m <sup>2</sup>  | ISO 179              |
| Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)        | 46            | kJ/m <sup>2</sup>  | ISO 179              |
| <b>Thermal</b>   |               |                    |                      |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)  | 248           | °C                 | ISO 75-2/B           |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)  | 211           | °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)  | <100          | mm/min             | FMVSS 302            |
| (2.00 mm)  | <100          | mm/min             | ISO 3795             |
| Glow Wire Flammability Index   | 650           | °C                 | IEC 60695-2-12       |
| <b>UL Information</b>  |               |                    |                      |
| Flammability Classification, (0.75 mm)                               | HB            |                    | IEC 60695-11-10, -20 |

| 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    |