

## Technical Data Sheet

### Schulamid 6 MV HI K1087 NAT

Polyamide 6

#### Product Description

PA 6, impact modified, faster cristallization

**Processing Method** Injection Molding

**Attribute** Impact Modified

**Additive** Impact Modifier

| Typical Properties                                                   | Nominal Value | Units             | Test Method   |
|----------------------------------------------------------------------|---------------|-------------------|---------------|
| <b>Physical</b>                                                      |               |                   |               |
| Density, (Method A)                                                  | 1.12          | g/cm <sup>3</sup> | ISO 1183      |
| <b>Mechanical</b>                                                    |               |                   |               |
| Tensile Stress at Yield, (Type 1A, 50 mm/min)                        | 73.0          | MPa               | ISO 527-2     |
| Tensile Strain at Yield, (Type 1A, 50 mm/min)                        | 3.5           | %                 | ISO 527-2     |
| Tensile Modulus, (1 mm/min, Type 1A)                                 | 2600          | MPa               | ISO 527-1     |
| <b>Impact</b>                                                        |               |                   |               |
| Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A) | 11            | kJ/m <sup>2</sup> | ISO 179       |
| Charpy Impact Strength - Unnotched, (23 °C, Type 1, Edgewise)        | No Break      |                   | ISO 179       |
| <b>Thermal</b>                                                       |               |                   |               |
| Vicat Softening Temperature                                          |               |                   |               |
| (B (50N), 50 °C/h)                                                   | 193           | °C                | ISO 306       |
| (A (10N), 120 °C/h)                                                  | 207           | °C                | ISO 306       |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)  | 185           | °C                | ISO 75-2/B    |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)  | 69.0          | °C                | ISO 75-2/A    |
| <b>Electrical</b>                                                    |               |                   |               |
| Volume Resistivity                                                   | >1.0E+13      | ohm*m             | IEC 62631-3-1 |
| 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      |

| 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 270    | °C    |
| Mold Temperature       | 60 to 90      | °C    |