

## Technical Data Sheet

### Schuladur A GF30 HR2 BLK



Polyester, Thermoplastic

#### Product Description

Schuladur A GF30 HR2 BLK is a 30% glass fiber reinforced PBT with a specific hydrolysis resistance.

|                      |                      |
|----------------------|----------------------|
| Processing Method    | Injection Molding    |
| Appearance           | Black                |
| Additive             | Hydrolysis Resistant |
| Filler/Reinforcement | Glass Fiber, 30%     |

| Typical Properties                                    | Nominal Value | Units             | Test Method          |
|-------------------------------------------------------|---------------|-------------------|----------------------|
| <b>Physical</b>                                       |               |                   |                      |
| Melt Flow Rate, (260 °C/5.0 kg)                       | 11            | g/10 min          | ISO 1133             |
| Density, (23 °C)                                      | 1,40          | g/cm <sup>3</sup> | ISO 1183             |
| <b>Mechanical</b>                                     |               |                   |                      |
| Flexural Modulus, (23 °C)                             | 7000          | MPa               | ISO 178              |
| Flexural Stress, (23 °C)                              | 155           | MPa               | ISO 178              |
| Tensile Modulus, (23 °C)                              | 8000          | MPa               | ISO 527-1, -2        |
| Tensile Stress at Break                               | 95            | MPa               | ISO 527-1, -2        |
| Tensile Strain at Break, (23 °C)                      | 4             | %                 | ISO 527-1, -2        |
| <b>Impact</b>                                         |               |                   |                      |
| Charpy Impact Strength - Notched                      |               |                   |                      |
| (23 °C)                                               | 23            | kJ/m <sup>2</sup> | ISO 179-1/1eA        |
| (-30 °C)                                              | 13            | kJ/m <sup>2</sup> | ISO 179-1/1eA        |
| Charpy Impact Strength - Unnotched                    |               |                   |                      |
| (-30 °C)                                              | 76            | kJ/m <sup>2</sup> | ISO 179-1/1eU        |
| (23 °C)                                               | 78            | kJ/m <sup>2</sup> | ISO 179-1/1eU        |
| <b>Thermal</b>                                        |               |                   |                      |
| Heat Deflection Temperature A, (1.80 MPa, Unannealed) | 200           | °C                | ISO 75A-1, -2        |
| <b>Electrical</b>                                     |               |                   |                      |
| Volume Resistivity                                    | >1e13         | ohm*m             | IEC 62631-3-1        |
| Comparative Tracking Index (CTI)                      | 575           | V                 | IEC 60112            |
| Surface Resistivity                                   | >1e15         | ohm               | IEC 60093            |
| <b>Flammable</b>                                      |               |                   |                      |
| Burning Rate, (2.00 mm)                               | 45            | mm/min            | FMVSS 302            |
| <b>UL Information</b>                                 |               |                   |                      |
| Flammability Classification                           |               |                   |                      |
| (1.5 mm)                                              | HB            |                   | IEC 60695-11-10, -20 |
| (3.0 mm)                                              | HB            |                   | IEC 60695-11-10, -20 |
| <b>Injection Parameters</b>                           |               |                   |                      |
|                                                       | Nominal Value | Units             |                      |
| Drying Time                                           | 2-4           | hr                |                      |
| Drying Temperature                                    | 120           | °C                |                      |
| Processing (Melt) Temp                                | 250-260       | °C                |                      |
| Mold Temperature                                      | 70-90         | °C                |                      |