

## Technical Data Sheet



# Schulamid 6 GF 30 WIT

Polyamide 6  
LyondellBasell Industries  
Engineering Plastics

### Product Description

30% glass fiber reinforced PA 6, good surface aspect for WAIT technology

### General

|                        |                                          |                                    |                 |
|------------------------|------------------------------------------|------------------------------------|-----------------|
| Material Status        | • Commercial: Active                     |                                    |                 |
| Availability           | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America        | • North America |
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight      |                                    |                 |
| Features               | • Good Surface Finish                    |                                    |                 |
| Processing Method      | • Injection Molding                      | • Water-Assisted Injection Molding |                 |

| Physical                          | Dry               | Conditioned      | Unit                                          | Test Method    |
|-----------------------------------|-------------------|------------------|-----------------------------------------------|----------------|
| Density                           | 1.34              | --               | g/cm <sup>3</sup>                             | ISO 1183/A     |
| Viscosity Number                  | 145               | --               | cm <sup>3</sup> /g                            | ISO 307        |
| Mechanical                        | Dry               | Conditioned      | Unit                                          | Test Method    |
| Tensile Modulus                   | 1.38E+6<br>(9500) | 653000<br>(4500) | psi<br>(MPa)                                  | ISO 527-1/1A/1 |
| Tensile Stress (Break)            | 20300<br>(140)    | 12300<br>(85.0)  | psi<br>(MPa)                                  | ISO 527-2/1A/5 |
| Tensile Strain (Break)            | 3.5               | 13               | %                                             | ISO 527-2/1A/5 |
| Impact                            | Dry               | Conditioned      | Unit                                          | Test Method    |
| Charpy Notched Impact Strength    |                   |                  |                                               | ISO 179/1eA    |
| -22°F (-30°C)                     | 2.9<br>(6.0)      | --               | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| 73°F (23°C)                       | 3.8<br>(8.0)      | 6.2<br>(13)      | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| Charpy Unnotched Impact Strength  |                   |                  |                                               | ISO 179/1eU    |
| -22°F (-30°C)                     | 26<br>(55)        | --               | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| 73°F (23°C)                       | 31<br>(65)        | 40<br>(85)       | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| Thermal                           | Dry               | Conditioned      | Unit                                          | Test Method    |
| Deflection Temperature Under Load |                   |                  |                                               |                |
| 66 psi (0.45 MPa), Unannealed     | 419<br>(215)      | --               | °F<br>(°C)                                    | ISO 75-2/Bf    |
| 264 psi (1.8 MPa), Unannealed     | 378<br>(192)      | --               | °F<br>(°C)                                    | ISO 75-2/Af    |
| Vicat Softening Temperature       |                   |                  |                                               |                |
| --                                | 410<br>(210)      | --               | °F<br>(°C)                                    | ISO 306/B50    |
| --                                | 428<br>(220)      | --               | °F<br>(°C)                                    | ISO 306/A120   |
| Electrical                        | Dry               | Conditioned      | Unit                                          | Test Method    |
| Surface Resistivity               | > 1.0E+15         | --               | ohms                                          | IEC 60093      |
| Volume Resistivity                | > 1.0E+13         | 1.0E+10          | ohms·m                                        | IEC 62631-3-1  |

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| Flammability        | Dry              | Conditioned | Unit               | Test Method |
|---------------------|------------------|-------------|--------------------|-------------|
| Burning Rate        |                  |             |                    |             |
| 0.0787 in (2.00 mm) | < 3.9<br>(< 100) | --          | in/min<br>(mm/min) | ISO 3795    |
| 0.0787 in (2.00 mm) | < 3.9<br>(< 100) | --          | in/min<br>(mm/min) | FMVSS 302   |

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| Injection              | Dry (English)  | Dry (SI)       |
|------------------------|----------------|----------------|
| Drying Temperature     | 176 °F         | 80 °C          |
| Drying Time            | 3.0 to 4.0 hr  | 3.0 to 4.0 hr  |
| Suggested Max Moisture | 0.04 to 0.10 % | 0.04 to 0.10 % |
| Processing (Melt) Temp | 482 to 536 °F  | 250 to 280 °C  |
| Mold Temperature       | 140 to 212 °F  | 60 to 100 °C   |

### Notes

These are typical property values not to be construed as specification limits.

### Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

### Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

### Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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