

## Technical Data Sheet



# Schulamid 66 GF 30 HE

Polyamide 66  
LyondellBasell Industries  
Engineering Plastics

### Product Description

30% glass fiber reinforced and heat stabilized polyamide 66-compound, electrical neutral

### General

|                        |                                     |
|------------------------|-------------------------------------|
| Material Status        | • Commercial: Active                |
| Availability           | • Europe                            |
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight |
| Processing Method      | • Injection Molding                 |

| Physical                                   | Dry               | Conditioned      | Unit                                          | Test Method    |
|--------------------------------------------|-------------------|------------------|-----------------------------------------------|----------------|
| Density                                    | 1.38              | --               | 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) | 754000<br>(5200) | psi<br>(MPa)                                  | ISO 527-1/1A/1 |
| Tensile Stress (Break)                     | 18900<br>(130)    | 10200<br>(70.0)  | psi<br>(MPa)                                  | ISO 527-2/1A/5 |
| Tensile Strain (Break)                     | 2.6               | 10               | %                                             | ISO 527-2/1A/5 |
| Flexural Modulus <sup>1</sup>              | 1.26E+6<br>(8700) | --               | psi<br>(MPa)                                  | ISO 178        |
| Flexural Stress <sup>1</sup> (3.0% Strain) | 30500<br>(210)    | --               | psi<br>(MPa)                                  | ISO 178        |
| Impact                                     | Dry               | Conditioned      | Unit                                          | Test Method    |
| Charpy Notched Impact Strength             |                   |                  |                                               | ISO 179/1eA    |
| -22°F (-30°C)                              | 1.4<br>(3.0)      | --               | ft-lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| 73°F (23°C)                                | 1.9<br>(4.0)      | 2.9<br>(6.0)     | ft-lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| Charpy Unnotched Impact Strength           |                   |                  |                                               | ISO 179/1eU    |
| -22°F (-30°C)                              | 14<br>(30)        | --               | ft-lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| 73°F (23°C)                                | 17<br>(35)        | 31<br>(65)       | 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              | > 482<br>(> 250)  | --               | °F<br>(°C)                                    | ISO 75-2/Bf    |
| 264 psi (1.8 MPa), Unannealed              | 444<br>(229)      | --               | °F<br>(°C)                                    | ISO 75-2/Af    |
| Vicat Softening Temperature                |                   |                  |                                               |                |
| --                                         | > 475<br>(> 246)  | --               | °F<br>(°C)                                    | ISO 306/B50    |
| --                                         | > 482<br>(> 250)  | --               | °F<br>(°C)                                    | ISO 306/A50    |
| Flammability                               | Dry               | Conditioned      | Unit                                          | Test Method    |
| Burning Rate                               |                   |                  |                                               |                |
| 0.0787 in (2.00 mm)                        | 1.2<br>(30)       | --               | in/min<br>(mm/min)                            | ISO 3795       |
| 0.0787 in (2.00 mm)                        | 1.2<br>(30)       | --               | in/min<br>(mm/min)                            | FMVSS 302      |

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**Additional Information**

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

**Characteristic properties**

As a semi-crystalline thermoplastic SCHULAMID® 66 possesses high rigidity, hardness and good cold impact resistance.

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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 | 536 to 572 °F  | 280 to 300 °C  |
| Mold Temperature       | 140 to 248 °F  | 60 to 120 °C   |

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**Notes**

<sup>1</sup> 0.079 in/min (2.0 mm/min)

**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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