

## Technical Data Sheet



# Schulamid 6 GB 15 LS

Polyamide 6  
LyondellBasell Industries  
Engineering Plastics

### Product Description

15% glass bead reinforced Polyamide 6 compound, UV-stabilized

### General

|                        |                                    |
|------------------------|------------------------------------|
| Material Status        | • Commercial: Active               |
| Availability           | • Europe                           |
| Filler / Reinforcement | • Glass Bead, 15% Filler by Weight |
| Processing Method      | • Injection Molding                |
| Resin ID (ISO 1043)    | • PA6-GB                           |

| Physical                          | Dry                                                 | Conditioned     | Unit                                          | Test Method    |
|-----------------------------------|-----------------------------------------------------|-----------------|-----------------------------------------------|----------------|
| Density                           | 1.23                                                | --              | 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                   | 493000<br>(3400)                                    | 138000<br>(950) | psi<br>(MPa)                                  | ISO 527-1/1A/1 |
| Tensile Stress (Break)            | 10400<br>(72.0)                                     | 6090<br>(42.0)  | psi<br>(MPa)                                  | ISO 527-2/1A/5 |
| Tensile Strain (Break)            | 9.0                                                 | > 50            | %                                             | ISO 527-2/1A/5 |
| Impact                            | Dry                                                 | Conditioned     | Unit                                          | Test Method    |
| Charpy Notched Impact Strength    |                                                     |                 |                                               | ISO 179/1eA    |
| -22°F (-30°C)                     | 1.7<br>(3.5)                                        | --              | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| 73°F (23°C)                       | 2.4<br>(5.0)                                        | 7.6<br>(16)     | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| Charpy Unnotched Impact Strength  |                                                     |                 |                                               | ISO 179/1eU    |
| -22°F (-30°C)                     | 12<br>(26)                                          | --              | ft·lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) |                |
| 73°F (23°C)                       | 21 ft·lb/in <sup>2</sup><br>(45 kJ/m <sup>2</sup> ) | No Break        | (kJ/m <sup>2</sup> )                          |                |
| Thermal                           | Dry                                                 | Conditioned     | Unit                                          | Test Method    |
| Deflection Temperature Under Load |                                                     |                 |                                               |                |
| 66 psi (0.45 MPa), Unannealed     | 329<br>(165)                                        | --              | °F<br>(°C)                                    | ISO 75-2/Bf    |
| 264 psi (1.8 MPa), Unannealed     | 140<br>(60.0)                                       | --              | °F<br>(°C)                                    | ISO 75-2/Af    |
| Vicat Softening Temperature       |                                                     |                 |                                               |                |
| --                                | 378<br>(192)                                        | --              | °F<br>(°C)                                    | ISO 306/B50    |
| --                                | 410<br>(210)                                        | --              | °F<br>(°C)                                    | ISO 306/A50    |
| Flammability                      | Dry                                                 | Conditioned     | Unit                                          | Test Method    |
| Burning Rate                      |                                                     |                 |                                               |                |
| 0.0787 in (2.00 mm)               | 2.4<br>(60)                                         | --              | in/min<br>(mm/min)                            | ISO 3795       |
| 0.0787 in (2.00 mm)               | 2.4<br>(60)                                         | --              | 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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