

## Technical Data Sheet



# Schulamid 66 GB 30 H

Polyamide 66  
LyondellBasell Industries  
Engineering Plastics

### Product Description

30% glass bead reinforced, heat stabilized Polyamide 66

### General

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

| Physical                                        | Dry              | Conditioned      | Unit                                          | Test Method    |
|-------------------------------------------------|------------------|------------------|-----------------------------------------------|----------------|
| Density                                         | 1.35             | --               | g/cm <sup>3</sup>                             | ISO 1183/A     |
| Viscosity Number                                | 140              | --               | cm <sup>3</sup> /g                            | ISO 307        |
| Mechanical                                      | Dry              | Conditioned      | Unit                                          | Test Method    |
| Tensile Modulus                                 | 653000<br>(4500) | 363000<br>(2500) | psi<br>(MPa)                                  | ISO 527-1/1A/1 |
| Tensile Stress (Break)                          | 12300<br>(85.0)  | 9430<br>(65.0)   | psi<br>(MPa)                                  | ISO 527-2/1A/5 |
| Tensile Strain (Break)                          | 7.5              | 11               | %                                             | ISO 527-2/1A/5 |
| Impact                                          | Dry              | Conditioned      | Unit                                          | Test Method    |
| Charpy Notched Impact Strength (73°F (23°C))    | 1.9<br>(4.0)     | --               | ft-lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) | ISO 179/1eA    |
| Charpy Unnotched Impact Strength<br>73°F (23°C) | 14<br>(30)       | --               | ft-lb/in <sup>2</sup><br>(kJ/m <sup>2</sup> ) | ISO 179/1eU    |
| Hardness                                        | Dry              | Conditioned      | Unit                                          | Test Method    |
| Ball Indentation Hardness (H 358/30)            | 26800<br>(185)   | 18100<br>(125)   | psi<br>(MPa)                                  | ISO 2039-1     |
| 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                   | 167<br>(75.0)    | --               | °F<br>(°C)                                    | ISO 75-2/Af    |
| Vicat Softening Temperature                     |                  |                  |                                               |                |
| --                                              | 446<br>(230)     | --               | °F<br>(°C)                                    | ISO 306/B50    |
| --                                              | 455<br>(235)     | --               | °F<br>(°C)                                    | ISO 306/A50    |
| Ball Pressure Test (257°F (125°C))              | Pass             | --               |                                               | IEC 60695-10-2 |
| Electrical                                      | Dry              | Conditioned      | Unit                                          | Test Method    |
| Surface Resistivity                             | > 1.0E+15        | > 1.0E+12        | ohms                                          | IEC 60093      |
| Volume Resistivity                              | > 1.0E+13        | > 1.0E+10        | ohms·m                                        | IEC 62631-3-1  |
| Comparative Tracking Index                      | 450              | --               | V                                             | IEC 60112      |

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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               |
| Flammability Classification  |                  |               |                    | IEC 60695-11-10,<br>-20 |
| 0.06 in (1.5 mm)             | HB               | --            |                    |                         |
| 0.12 in (3.0 mm)             | HB               | --            |                    |                         |
| Glow Wire Flammability Index |                  |               |                    | IEC 60695-2-12          |
| 0.06 in (1.5 mm)             | --               | 1200<br>(650) | °F<br>(°C)         |                         |
| 0.12 in (3.0 mm)             | --               | 1200<br>(650) | °F<br>(°C)         |                         |

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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   |

### 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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