

## Technical Data Sheet

**Schuladur A1 GF15 K1947**

Polybutylene Terephthalate + PET  
LyondellBasell Industries  
Engineering Plastics

**Product Description**

15% glass fibre reinforced PBT/PET blend.

**General**

|                        |                                          |                             |                 |
|------------------------|------------------------------------------|-----------------------------|-----------------|
| Material Status        | • Commercial: Active                     |                             |                 |
| Availability           | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Filler / Reinforcement | • Glass Fiber, 15% Filler by Weight      |                             |                 |
| Recycled Content       | • Yes                                    |                             |                 |
| Processing Method      | • Injection Molding                      |                             |                 |

| Physical                                    | Nominal Value (English)   | Nominal Value (SI)        | Test Method    |
|---------------------------------------------|---------------------------|---------------------------|----------------|
| Density                                     | 1.43 g/cm <sup>3</sup>    | 1.43 g/cm <sup>3</sup>    | ISO 1183/A     |
| Melt Volume-Flow Rate (MVR) (260°C/2.16 kg) | 19 cm <sup>3</sup> /10min | 19 cm <sup>3</sup> /10min | ISO 1133       |
| Mechanical                                  | Nominal Value (English)   | Nominal Value (SI)        | Test Method    |
| Tensile Modulus                             | 972000 psi                | 6700 MPa                  | ISO 527-1/1A/1 |
| Tensile Stress (Break)                      | 16200 psi                 | 112 MPa                   | ISO 527-2/1A/5 |
| Tensile Strain (Break)                      | 2.4 %                     | 2.4 %                     | ISO 527-2/1A/5 |
| Impact                                      | Nominal Value (English)   | Nominal Value (SI)        | Test Method    |
| Charpy Notched Impact Strength              |                           |                           | ISO 179/1eA    |
| -22°F (-30°C)                               | 1.9 ft·lb/in <sup>2</sup> | 4.0 kJ/m <sup>2</sup>     |                |
| 73°F (23°C)                                 | 2.4 ft·lb/in <sup>2</sup> | 5.0 kJ/m <sup>2</sup>     |                |
| Charpy Unnotched Impact Strength            |                           |                           | ISO 179/1eU    |
| -22°F (-30°C)                               | 8.6 ft·lb/in <sup>2</sup> | 18 kJ/m <sup>2</sup>      |                |
| 73°F (23°C)                                 | 13 ft·lb/in <sup>2</sup>  | 27 kJ/m <sup>2</sup>      |                |
| Thermal                                     | Nominal Value (English)   | Nominal Value (SI)        | Test Method    |
| Deflection Temperature Under Load           |                           |                           |                |
| 66 psi (0.45 MPa), Unannealed               | 415 °F                    | 213 °C                    | ISO 75-2/Bf    |
| 264 psi (1.8 MPa), Unannealed               | 367 °F                    | 186 °C                    | ISO 75-2/Af    |
| Vicat Softening Temperature                 |                           |                           |                |
| --                                          | 381 °F                    | 194 °C                    | ISO 306/B50    |
| --                                          | 419 °F                    | 215 °C                    | ISO 306/A120   |
| Electrical                                  | Nominal Value (English)   | Nominal Value (SI)        | Test Method    |
| Surface Resistivity                         | > 1.0E+15 ohms            | > 1.0E+15 ohms            | IEC 60093      |
| Volume Resistivity                          | > 1.0E+13 ohms·m          | > 1.0E+13 ohms·m          | IEC 62631-3-1  |

**Additional Information**

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

## Technical Data Sheet



# Schuladur A1 GF15 K1947

Polybutylene Terephthalate + PET  
LyondellBasell Industries  
Engineering Plastics



| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 248 °F                  | 120 °C             |
| Drying Time            | 4.0 to 6.0 hr           | 4.0 to 6.0 hr      |
| Suggested Max Moisture | 0.02 %                  | 0.02 %             |
| Processing (Melt) Temp | 500 to 536 °F           | 260 to 280 °C      |
| Mold Temperature       | 176 to 230 °F           | 80 to 110 °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/>.

© LyondellBasell Industries Holdings, B.V. 2024

### Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

### Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.