

## Technical Data Sheet

**Schuladur A3 GF 20 DIORIT METALLIC 96.7803**

Polybutylene Terephthalate + ASA  
LyondellBasell Industries  
Engineering Plastics

**Product Description**

20% glass fibre reinforced PBT - ASA - blend with high surface quality and reduced warpage

**General**

|                        |                                          |                             |                 |
|------------------------|------------------------------------------|-----------------------------|-----------------|
| Material Status        | • Commercial: Active                     |                             |                 |
| Availability           | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Filler / Reinforcement | • Glass Fiber, 20% Filler by Weight      |                             |                 |
| Processing Method      | • Injection Molding                      |                             |                 |
| Resin ID (ISO 1043)    | • (PBT+ASA)-GF20                         |                             |                 |

| Physical                                    | Nominal Value (English)   | Nominal Value (SI)        | Test Method    |
|---------------------------------------------|---------------------------|---------------------------|----------------|
| Density                                     | 1.36 g/cm <sup>3</sup>    | 1.36 g/cm <sup>3</sup>    | ISO 1183/A     |
| Melt Volume-Flow Rate (MVR) (250°C/2.16 kg) | 10 cm <sup>3</sup> /10min | 10 cm <sup>3</sup> /10min | ISO 1133       |
| Mechanical                                  | Nominal Value (English)   | Nominal Value (SI)        | Test Method    |
| Tensile Modulus                             | 1.00E+6 psi               | 6900 MPa                  | ISO 527-1/1A/1 |
| Tensile Stress (Break)                      | 13800 psi                 | 95.0 MPa                  | ISO 527-2/1A/5 |
| Tensile Strain (Break)                      | 2.0 %                     | 2.0 %                     | 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)                                 | 2.9 ft·lb/in <sup>2</sup> | 6.0 kJ/m <sup>2</sup>     |                |
| Charpy Unnotched Impact Strength            |                           |                           | ISO 179/1eU    |
| -22°F (-30°C)                               | 18 ft·lb/in <sup>2</sup>  | 37 kJ/m <sup>2</sup>      |                |
| 73°F (23°C)                                 | 18 ft·lb/in <sup>2</sup>  | 38 kJ/m <sup>2</sup>      |                |
| Thermal                                     | Nominal Value (English)   | Nominal Value (SI)        | Test Method    |
| Deflection Temperature Under Load           |                           |                           | ISO 75-2/Af    |
| 264 psi (1.8 MPa), Unannealed               | 340 °F                    | 171 °C                    |                |
| Vicat Softening Temperature                 | 295 °F                    | 146 °C                    | ISO 306/B50    |
| Flammability                                | Nominal Value (English)   | Nominal Value (SI)        | Test Method    |
| Burning Rate                                |                           |                           | ISO 3795       |
| 0.0394 in (1.00 mm)                         | 3.0 in/min                | 77 mm/min                 |                |
| 0.0787 in (2.00 mm)                         | 1.9 in/min                | 48 mm/min                 |                |

**Additional Information**

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

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| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 212 °F                  | 100 °C             |
| Drying Time            | 2.0 to 4.0 hr           | 2.0 to 4.0 hr      |
| Suggested Max Moisture | 0.05 %                  | 0.05 %             |
| Processing (Melt) Temp | 482 to 500 °F           | 250 to 260 °C      |
| Mold Temperature       | 140 to 194 °F           | 60 to 90 °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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