

# Schuladur A2 GF 15 K1882 LS

Polybutylene Terephthalate + ASA

LyondellBasell Industries

Engineering Plastics

## Product Description

15% glass fibre reinforced PBT/ASA-blend with high surface and reduced warpage

## General

|                        |                                     |
|------------------------|-------------------------------------|
| Filler / Reinforcement | • Glass Fiber, 15% Filler by Weight |
| Processing Method      | • Injection Molding                 |
| Resin ID (ISO 1043)    | • PBT+ASA GF15                      |

| Physical                    | Nominal Value (English)    | Nominal Value (SI)         | Test Method |
|-----------------------------|----------------------------|----------------------------|-------------|
| Density                     | 1.31 g/cm <sup>3</sup>     | 1.31 g/cm <sup>3</sup>     | ISO 1183/A  |
| Melt Volume-Flow Rate (MVR) |                            |                            | ISO 1133    |
| 250°C/2.16 Kg               | 5.0 cm <sup>3</sup> /10min | 5.0 cm <sup>3</sup> /10min |             |
| 250°C/5.0 Kg                | 30 cm <sup>3</sup> /10min  | 30 cm <sup>3</sup> /10min  |             |

| Mechanical                     | Nominal Value (English) | Nominal Value (SI) | Test Method    |
|--------------------------------|-------------------------|--------------------|----------------|
| Tensile Modulus                | 674000 psi              | 4650 MPa           | ISO 527-1/1A/1 |
| Tensile Stress (Break)         | 8700 psi                | 60.0 MPa           | ISO 527-2/1A/5 |
| Tensile Strain (Break)         | 3.2 %                   | 3.2 %              | ISO 527-2/1A/5 |
| Flexural Modulus (73°F (23°C)) | 595000 psi              | 4100 MPa           | ISO 178        |
| Flexural Stress (73°F (23°C))  | 13600 psi               | 94.0 MPa           | ISO 178        |

| Impact                                       | Nominal Value (English)   | Nominal Value (SI)    | Test Method |
|----------------------------------------------|---------------------------|-----------------------|-------------|
| Charpy Notched Impact Strength (73°F (23°C)) | 2.9 ft·lb/in <sup>2</sup> | 6.0 kJ/m <sup>2</sup> | ISO 179/1eA |
| Charpy Unnotched Impact Strength             |                           |                       | ISO 179/1eU |
| 73°F (23°C)                                  | 19 ft·lb/in <sup>2</sup>  | 40 kJ/m <sup>2</sup>  |             |

| Thermal                           | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-----------------------------------|-------------------------|--------------------|-------------|
| Deflection Temperature Under Load |                         |                    |             |
| 66 Psi (0.45 Mpa), Unannealed     | 392 °F                  | 200 °C             | ISO 75-2/Bf |
| 264 Psi (1.8 Mpa), Unannealed     | 266 °F                  | 130 °C             | ISO 75-2/Af |

| Electrical                 | Nominal Value (English) | Nominal Value (SI) | Test Method |
|----------------------------|-------------------------|--------------------|-------------|
| Comparative Tracking Index | 250 V                   | 250 V              | IEC 60112   |

| Flammability        | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---------------------|-------------------------|--------------------|-------------|
| Burning Rate        |                         |                    |             |
| 0.0787 In (2.00 Mm) | < 3.9 in/min            | < 100 mm/min       | ISO 3795    |
| 0.0787 In (2.00 Mm) | < 3.9 in/min            | < 100 mm/min       | FMVSS 302   |

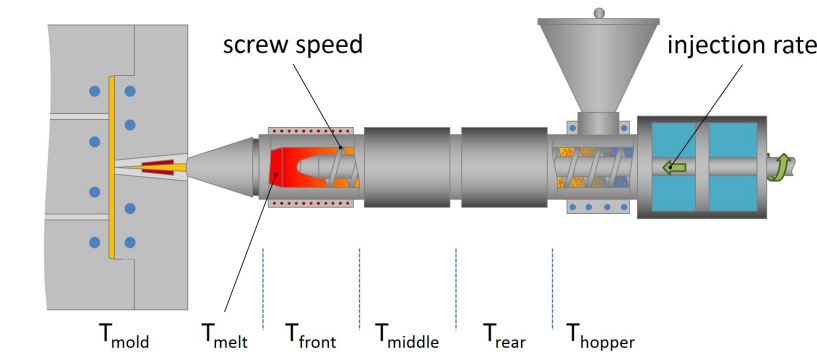
## Additional Information

- 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 %             |
| Hopper Temperature     | 158 °F                  | 70 °C              |
| Rear Temperature       | 446 °F                  | 230 °C             |
| Middle Temperature     | 473 °F                  | 245 °C             |
| Front Temperature      | 500 °F                  | 260 °C             |
| Nozzle Temperature     | 500 °F                  | 260 °C             |
| Processing (Melt) Temp | 482 to 500 °F           | 250 to 260 °C      |
| Mold Temperature       | 140 to 194 °F           | 60 to 90 °C        |
| Injection Pressure     | 11600 to 17400 psi      | 80.0 to 120 MPa    |
| Holding Pressure       | 5800 to 10200 psi       | 40.0 to 70.0 MPa   |
| Back Pressure          | 725 to 1450 psi         | 5.00 to 10.0 MPa   |
| Vent Depth             | 7.9E-4 in               | 0.020 mm           |
| Screw Speed            | 709 in/min              | 18 m/min           |

Notes

These are typical property values not to be construed as specification limits.

