**Technical Data Sheet**

# *Schuladur* A GF 15 HI

Polybutylene Terephthalate
LyondellBasell Industries
Engineering Plastics

| Product Description | |
|---|---|
| 15% glass fibre reinforced PBT compound providing high impact strength | |
| **General** | |
| Filler / Reinforcement | • Glass Fiber, 15% Filler by Weight |
| Features | • Impact Modified |
| Automotive Specifications | • GM QK 006612 E Color: Natural |
| Processing Method | • Injection Molding |
| Resin ID (ISO 1043) | • PBT-GF |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|---|---|---|
| Density | 1.37 g/cm³ | 1.37 g/cm³ | ISO 1183/A |
| Melt Volume-Flow Rate (MVR) (250°c/2.16 Kg) | 15 cm³/10min | 15 cm³/10min | ISO 1133 |
| Water Absorption | | | ISO 62 |
| Equilibrium, 73°f (23°c), 50% Rh | 0.30 % | 0.30 % | |
| **Mechanical** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Tensile Modulus | 754000 psi | 5200 MPa | ISO 527-1/1A/1 |
| Tensile Stress (Break) | 13300 psi | 92.0 MPa | ISO 527-2/1A/5 |
| Tensile Strain (Break) | 3.8 % | 3.8 % | 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) | 2.9 ft·lb/in² | 6.0 kJ/m² | |
| 73°f (23°c) | 5.2 ft·lb/in² | 11 kJ/m² | |
| Charpy Unnotched Impact Strength | | | ISO 179/1eU |
| -22°f (-30°c) | 16 ft·lb/in² | 33 kJ/m² | |
| 73°f (23°c) | 29 ft·lb/in² | 61 kJ/m² | |
| **Thermal** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Deflection Temperature Under Load | | | |
| 66 Psi (0.45 Mpa), Unannealed | 423 °F | 217 °C | ISO 75-2/Bf |
| 264 Psi (1.8 Mpa), Unannealed | 374 °F | 190 °C | ISO 75-2/Af |
| Vicat Softening Temperature | | | |
| -- | 387 °F | 197 °C | ISO 306/B50 |
| -- | 426 °F | 219 °C | ISO 306/A50 |
| Ball Pressure Test (392°f (200°c)) | Pass | Pass | IEC 60695-10-2 |
| **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 |
| Comparative Tracking Index | 375 V | 375 V | IEC 60112 |

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| Flammability | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|---|---|---|
| Burning Rate | | | |
| 0.0787 In (2.00 Mm) | 1.4 in/min | 35 mm/min | ISO 3795 |
| 0.0787 In (2.00 Mm) | 1.4 in/min | 35 mm/min | FMVSS 302 |
| Flammability Classification | | | IEC 60695-11-10, -20 |
| 0.06 In (1.5 Mm) | HB | HB | |
| 0.12 In (3.0 Mm) | HB | HB | |
| Glow Wire Flammability Index | | | IEC 60695-2-12 |
| 0.06 In (1.5 Mm) | 1340 °F | 725 °C | |
| 0.12 In (3.0 Mm) | 1340 °F | 725 °C | |
| Glow Wire Ignition Temperature | | | IEC 60695-2-13 |
| 0.06 In (1.5 Mm) | 1380 °F | 750 °C | |
| 0.12 In (3.0 Mm) | 1380 °F | 750 °C | |
| Oxygen Index | 19 % | 19 % | ISO 4589-2 |

**Additional Information**

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

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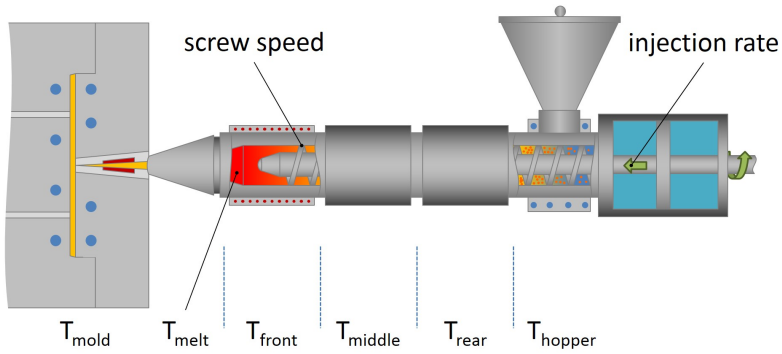


| Injection | Nominal Value (English) | Nominal Value (SI) |
|---|---|---|
| Drying Temperature | 212 °F | 100 °C |
| Drying Time | 2.0 to 4.0 hr | 2.0 to 4.0 hr |
| Suggested Max Moisture | 0.05 % | 0.05 % |
| Processing (Melt) Temp | 464 to 482 °F | 240 to 250 °C |
| Mold Temperature | 158 to 194 °F | 70 to 90 °C |

**Notes**

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