



Technical Data Sheet

Polyfort FPP 3539

Polypropylene
 LyondellBasell Industries
 Engineering Plastics

Product Description
 PP 15% Glass Fiber Chemically Coupled

| General | |
|------------------------|-------------------------------------|
| Material Status | • Commercial: Active |
| Availability | • North America |
| Filler / Reinforcement | • Glass Fiber, 15% Filler by Weight |
| Features | • Chemically Coupled |
| Processing Method | • Injection Molding |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|----------|-------------------------|-------------------------|-------------|
| Density | 0.990 g/cm ³ | 0.990 g/cm ³ | ISO 1183 |

| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-------------------------------|-------------------------|--------------------|--------------|
| Tensile Stress (Yield) | 7980 psi | 55.0 MPa | ISO 527-2/50 |
| Flexural Modulus ¹ | 486000 psi | 3350 MPa | ISO 178 |

| Impact | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--------------------------------|---------------------------|----------------------|-------------|
| Charpy Notched Impact Strength | 4.8 ft·lb/in ² | 10 kJ/m ² | ISO 179 |

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

| Additional Information | Nominal Value (English) | Nominal Value (SI) | Test Method |
|------------------------|-------------------------|--------------------|-------------|
| Filler Content | 15 % | 15 % | ASTM D5630 |

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| Injection | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature | 176 °F | 80 °C |
| Drying Time | 2.0 to 3.0 hr | 2.0 to 3.0 hr |
| Processing (Melt) Temp | 428 to 500 °F | 220 to 260 °C |
| Mold Temperature | 86 to 140 °F | 30 to 60 °C |
| Injection Rate | Moderate-Fast | Moderate-Fast |

Injection Notes

Polypropylene is not hygroscopic and generally does not require drying. As a good practice and to avoid residual humidity from transport or storage conditions, we recommend drying the material.

Ensure good mold venting

Injection molding parameters also influence emission properties, which are often required for automotive interior applications. Generally speaking, the emission, odor and fogging behavior of finished parts is improved by lowering the melt temperature, reducing residence time and avoiding high shear stress.

Notes

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