

Technical Data Sheet

Polyfort POLYFORT FPP 1902HU-3380

Polypropylene
LyondellBasell Industries
Engineering Plastics

Product Description

POLYFORT FPP 1902HU-3380 is an 11% Talc-Filled, UV Stabilized Polypropylene

General

| | |
|------------------------|------------------------------|
| Material Status | • Commercial: Active |
| Availability | • North America |
| Filler / Reinforcement | • Talc, 11% Filler by Weight |
| 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 |
| Melt Mass-Flow Rate (MFR) | 29 g/10 min | 29 g/10 min | ISO 1133 |
| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Tensile Stress (Yield) | 4260 psi | 29.4 MPa | ISO 527-2 |
| Tensile Strain (Break) | 18 % | 18 % | ISO 527-2/50 |
| Flexural Modulus - Tangent | 256000 psi | 1760 MPa | ISO 178 |
| Flexural Stress | 6800 psi | 46.9 MPa | ISO 178 |
| Thermal | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Deflection Temperature Under Load 264 Psi (1.8 Mpa), Unannealed | 253 °F | 123 °C | ISO 75-2/A |
| Additional Information | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Filler Content | 11 % | 11 % | 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.