Technical Data Sheet

Polyfort POLYFORT FPP 1007F

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

Product Description	
Polyfort® FPP 1007F is a 40% Talc-Filled, FDA approved Polypropylene Homopolymer	
General	
Filler / Reinforcement	• Talc, 40% Filler by Weight
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.20 g/cm³	1.20 g/cm³	ISO 1183
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Stress			
Yield	4930 psi	34.0 MPa	ISO 527-2/50
Break	435 psi	3.00 MPa	ISO 527-2
Flexural Modulus [1]	479000 psi	3300 MPa	ISO 178
Flexural Stress	8990 psi	62.0 MPa	ISO 178
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact Strength	15 ft·lb/in²	32 kJ/m²	ISO 180
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/A
264 Psi (1.8 Mpa), Unannealed	266 °F	130 °C	

Additional Information	Nominal Value (English)	Nominal Value (SI)	Test Method
Filler Content	40 %	40 %	ASTM D5630

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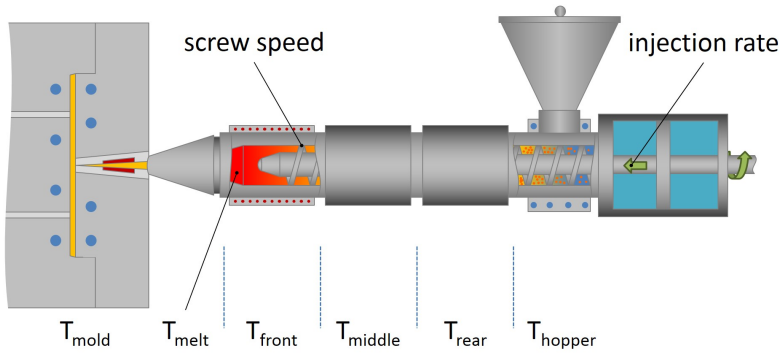

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Processing (Melt) Temp	428 to 500 °F	220 to 260 °C
Mold Temperature	86 to 140 °F	30 to 60 °C
Injection Rate	Moderate-Fast	Moderate-Fast

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.