Technical Data Sheet

Polyfort FPP 3707U-1714

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

Product Description	
POLYFORT FPP 3707U-1714 is an 18% Calcium-Filled Polypropylene Homopolymer	

General	
Filler / Reinforcement	• Calcium Carbonate, 18% Filler by Weight
UL File NumberUsa	• E51193
Appearance	• White
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.06	1.06 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°c/2.16 Kg)	18 g/10 min	18 g/10 min	ASTM D1238
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength [1] (Yield)	4370 psi	30.1 MPa	ASTM D638
Tensile Elongation (Break)	36 %	36 %	ASTM D638
Flexural Modulus [2]	293000 psi	2020 MPa	ASTM D790
Flexural Strength	7010 psi	48.3 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact	0.74 ft·lb/in	40 J/m	ASTM D256
Gardner Impact	8.40 in·lb	0.949 J	ASTM D5420
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	239 °F	115 °C	
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Flame Rating (0.06 In (1.5 Mm))	HB	HB	UL 94

Additional Information	Nominal Value (English)	Nominal Value (SI)	Test Method
Filler Content	18 %	18 %	ASTM D5630

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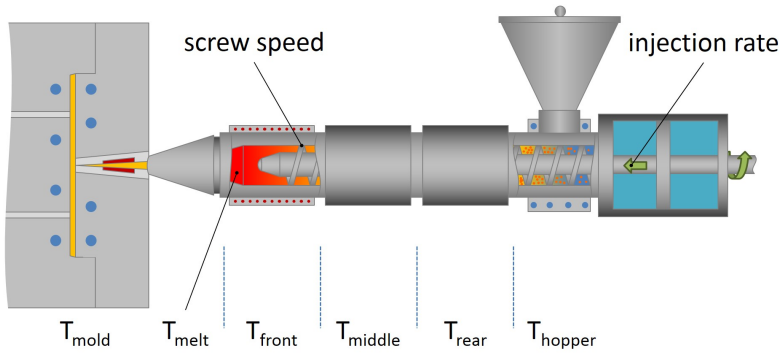

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Processing (Melt) Temp	428 to 500 °F	220 to 260 °C
Mold Temperature	86 to 140 °F	30 to 60 °C
Injection Rate	Moderate-Fast	Moderate-Fast

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.

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Notes

[1] 2.0 in/min (50 mm/min)

[2] 0.051 in/min (1.3 mm/min)

Notes

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