Technical Data Sheet

POLYFORT® FPP 40 T LE K2274

Polypropylene Homopolymer
Engineering Plastics

Product Description
40% talc-filled PP-Homopolymercompound, low emission and low odour

General	
Filler / Reinforcement	• Talc, 40% Filler by Weight
Features	• Homopolymer
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PP-H 40T LE

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.25 g/cm³	1.25 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	8.00 cm³/10min	8.00 cm³/10min	ISO 1133
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	580000 psi	4000 MPa	ISO 527-2/1A/1
Tensile Stress (Break)	4350 psi	30.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.5 %	3.5 %	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)	0.86 ft·lb/in²	1.8 kJ/m²	
73°F (23°C)	1.2 ft·lb/in²	2.5 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F (-30°C)	5.2 ft·lb/in²	11 kJ/m²	
73°F (23°C)	9.5 ft·lb/in²	20 kJ/m²	
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Heat Deflection Temperature			
66 psi (0.45 MPa), Unannealed	266 °F	130 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	194 °F	90.0 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	311 °F	155 °C	ISO 306/A50
--	194 °F	90.0 °C	ISO 306/B50
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Burning Rate			
0.0787 in (2.00 mm)	1.9 in/min	48 mm/min	ISO 3795
0.0787 in (2.00 mm)	1.9 in/min	48 mm/min	FMVSS 302
Flame Rating			UL 94
0.06 in (1.5 mm)	HB	HB	IEC 60695-11-10, -20
0.12 in (3.0 mm)	HB	HB	

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

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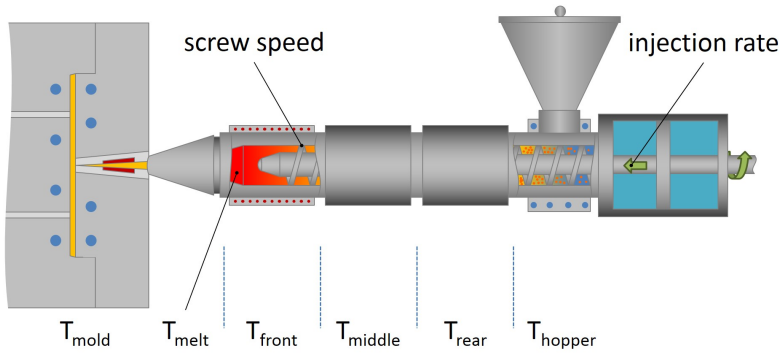

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Suggested Max Regrind	20 %	20 %
Processing (Melt) Temp	446 to 518 °F	230 to 270 °C
Mold Temperature	104 to 158 °F	40 to 70 °C

Injection Notes

Drying normally not necessary.
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.