Technical Data Sheet

Polyfort PPH MTF 2005

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

Product Description			
Glass fiber and mineral filled PP Homopolymer			
General			
Filler / Reinforcement	• Glass Fiber, 5.0% Filler by Weight	• Mineral, 15% Filler by Weight	
Features	• High Strength	• Homopolymer	• Low Warpage
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.04 g/cm³	1.04 g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°c/2.16 Kg)	8.0 cm³/10min	8.0 cm³/10min	ISO 1133
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	435000 psi	3000 MPa	ISO 527-1/1A/1
Tensile Stress			ISO 527-2/1A/50
Yield	5800 psi	40.0 MPa	
Break	5080 psi	35.0 MPa	
Tensile Strain			ISO 527-2/1A/50
Yield	40 %	40 %	
Break	7.0 %	7.0 %	
Flexural Modulus	479000 psi	3300 MPa	ISO 178
Flexural Stress	9430 psi	65.0 MPa	ISO 178
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°f (-30°c)	0.95 ft·lb/in²	2.0 kJ/m²	
73°f (23°c)	1.4 ft·lb/in²	3.0 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°f (-30°c)	7.1 ft·lb/in²	15 kJ/m²	
73°f (23°c)	12 ft·lb/in²	25 kJ/m²	
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	284 °F	140 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	185 °F	85.0 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	221 °F	105 °C	ISO 306/B50
--	311 °F	155 °C	ISO 306/A50
Electrical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+13 ohms·cm	> 1.0E+13 ohms·cm	IEC 60093
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Burning Rate			
0.0787 In (2.00 Mm)	< 3.9 in/min	< 100 mm/min	ISO 3795
0.0787 In (2.00 Mm)	< 3.9 in/min	< 100 mm/min	FMVSS 302
Flammability Classification			IEC 60695-11-10, -20
0.06 In (1.5 Mm)	HB	HB	

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Additional Information

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

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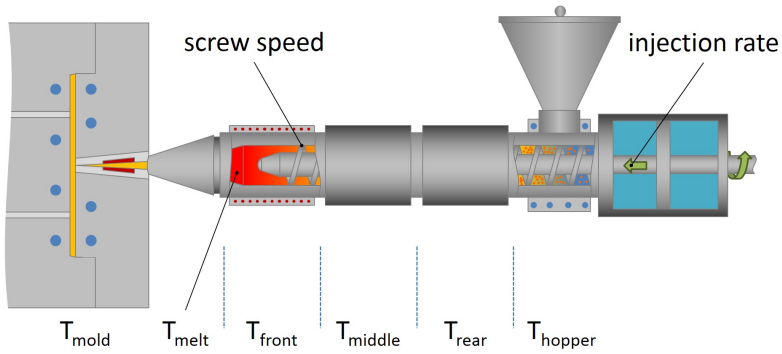

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Processing (Melt) Temp	428 to 500 °F	220 to 260 °C
Mold Temperature	86 to 140 °F	30 to 60 °C
Injection Rate	Moderate-Fast	Moderate-Fast

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.