

Technical Data Sheet

**Polyfort FPP 1006U**

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

Product Description

20% talc filled PP Homo Compound, UV stabilized

General

Material Status	• Commercial: Active	
Availability	• Europe	• North America
Filler / Reinforcement	• Talc, 20% Filler by Weight	
Features	• UV Stabilized	
Appearance	• Colors Available	
Processing Method	• Injection Molding	
Resin ID (ISO 1043)	• PP T20 UV	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.05 g/cm ³	1.05 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	14 cm ³ /10min	14 cm ³ /10min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	377000 psi	2600 MPa	ISO 527-1/1A/1
Tensile Stress (Yield)	4060 psi	28.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	5.0 %	5.0 %	ISO 527-2/1A/50
Flexural Modulus ¹	421000 psi	2900 MPa	ISO 178
Flexural Stress ¹			ISO 178
5.8% Strain	7250 psi	50.0 MPa	
3.5% Strain	6530 psi	45.0 MPa	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	1.0 ft·lb/in ²	2.1 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
73°F (23°C)	15 ft·lb/in ²	32 kJ/m ²	
Notched Izod Impact Strength (73°F (23°C))	1.1 ft·lb/in ²	2.3 kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength (73°F (23°C))	11 ft·lb/in ²	24 kJ/m ²	ISO 180/1U
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	253 °F	123 °C	ISO 75-2/Bf
264 psi (1.8 MPa), Unannealed	149 °F	65.0 °C	ISO 75-2/ Af
Vicat Softening Temperature			
--	199 °F	93.0 °C	ISO 306/B50
--	306 °F	152 °C	ISO 306/A50
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			
0.0787 in (2.00 mm)	1.7 in/min	43 mm/min	ISO 3795
0.0787 in (2.00 mm)	1.7 in/min	43 mm/min	FMVSS 302

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.

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Notes

¹ 0.079 in/min (2.0 mm/min)

Notes

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

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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