

## Technical Data Sheet

**Polyfort FPP 1006H-31**

Polypropylene  
LyondellBasell Industries  
Engineering Plastics

**Product Description**

PP 20% Talc

**General**

|                           |                                                                                                            |  |  |
|---------------------------|------------------------------------------------------------------------------------------------------------|--|--|
| Material Status           | • Commercial: Active                                                                                       |  |  |
| Availability              | • North America                                                                                            |  |  |
| Filler / Reinforcement    | • Talc, 20% Filler by Weight                                                                               |  |  |
| Automotive Specifications | • FORD WSK-M4D729-A3 • GM GMP.PP.008 Color: Natural<br>• GM GMP.PP.008 Color: Black • TOYOTA TSM 5601G-3BL |  |  |
| Processing Method         | • Injection Molding                                                                                        |  |  |

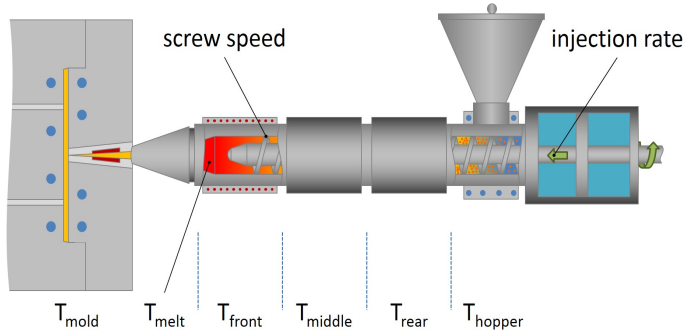
| Physical                                                           | Nominal Value (English)   | Nominal Value (SI)     | Test Method  |
|--------------------------------------------------------------------|---------------------------|------------------------|--------------|
| Density                                                            | 1.05 g/cm <sup>3</sup>    | 1.05 g/cm <sup>3</sup> | ISO 1183     |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                          | 11 g/10 min               | 11 g/10 min            | ASTM D1238   |
| Mechanical                                                         | Nominal Value (English)   | Nominal Value (SI)     | Test Method  |
| Tensile Stress (Yield)                                             | 4350 psi                  | 30.0 MPa               | ISO 527-2/50 |
| Tensile Strain (Break)                                             | 50 %                      | 50 %                   | ISO 527-2/50 |
| Flexural Modulus <sup>1</sup>                                      | 261000 psi                | 1800 MPa               | ISO 178      |
| Impact                                                             | Nominal Value (English)   | Nominal Value (SI)     | Test Method  |
| Notched Izod Impact Strength                                       | 1.2 ft·lb/in <sup>2</sup> | 2.5 kJ/m <sup>2</sup>  | ISO 180      |
| Thermal                                                            | Nominal Value (English)   | Nominal Value (SI)     | Test Method  |
| Deflection Temperature Under Load<br>264 psi (1.8 MPa), Unannealed | 149 °F                    | 65.0 °C                | ISO 75-2/A   |
| Additional Information                                             | Nominal Value (English)   | Nominal Value (SI)     | Test Method  |
| Filler Content                                                     | 20 %                      | 20 %                   | 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

<sup>1</sup> 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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