

Technical Data Sheet

## Polyfort FPP 1607

Polypropylene  
LyondellBasell Industries  
Engineering Plastics

### Product Description

PP 30% Talc

### General

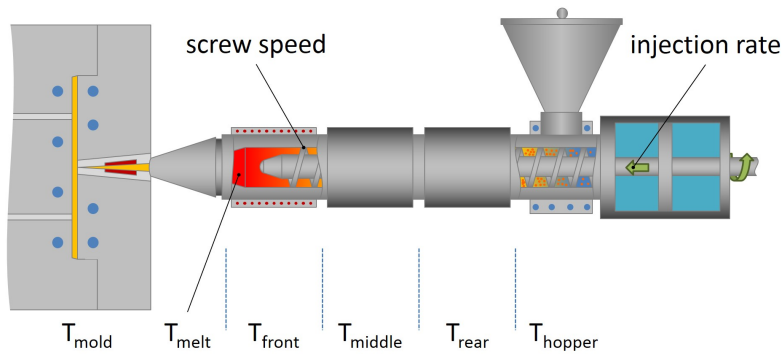
|                           |                                                                     |
|---------------------------|---------------------------------------------------------------------|
| Material Status           | • Commercial: Active                                                |
| Availability              | • North America                                                     |
| Filler / Reinforcement    | • Talc, 30% Filler by Weight                                        |
| Automotive Specifications | • NISSAN NES M8012 PP(T30) IC1-1 • TOYOTA TSM 5601G-9A Color: Black |
| Processing Method         | • Injection Molding                                                 |

| Physical                              | Nominal Value (English) | Nominal Value (SI)     | Test Method |
|---------------------------------------|-------------------------|------------------------|-------------|
| Density / Specific Gravity            | 1.15                    | 1.15 g/cm <sup>3</sup> | ASTM D792   |
| Mechanical                            | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Tensile Strength <sup>1</sup> (Yield) | 4060 psi                | 28.0 MPa               | ASTM D638   |
| Flexural Modulus <sup>2</sup>         | 435000 psi              | 3000 MPa               | ASTM D790   |
| Impact                                | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Notched Izod Impact                   | 0.66 ft·lb/in           | 35 J/m                 | ASTM D256   |
| 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                 |             |
| 264 Psi (1.8 Mpa), Unannealed         | 158 °F                  | 70.0 °C                |             |
| Additional Information                | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Filler Content                        | 29 %                    | 29 %                   | 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.

### Notes

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