

## Technical Data Sheet

### Polyfort FPP 20 T NAT 00002



Polypropylene, Homopolymer

#### Product Description

20% talc filled PP-Homopolymer

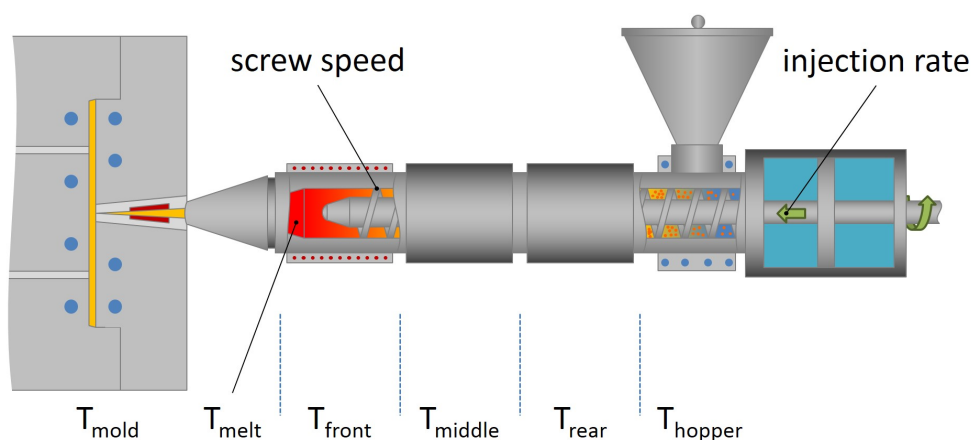
#### Regulatory Status

For regulatory compliance information, see *Polyfort FPP 20 T NAT 00002* [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                             |                                                                        |
|-----------------------------|------------------------------------------------------------------------|
| <b>Status</b>               | Commercial: Active                                                     |
| <b>Availability</b>         | Africa-Middle East; Asia-Pacific; Europe; Latin America; North America |
| <b>Processing Method</b>    | Injection Molding                                                      |
| <b>Attribute</b>            | Low Emissions                                                          |
| <b>Filler/Reinforcement</b> | Talc, 20%                                                              |
| <b>Resin ID</b>             | PP-T                                                                   |

| Typical Properties                                                  | Nominal Value | Units                   | Test Method    |
|---------------------------------------------------------------------|---------------|-------------------------|----------------|
| <b>Physical</b>                                                     |               |                         |                |
| Melt Volume Flow Rate, (230 °C/2.16 kg)                             | 9.0           | cm <sup>3</sup> /10 min | ISO 1133       |
| Density, (Method A)                                                 | 1.06          | g/cm <sup>3</sup>       | ISO 1183       |
| <b>Mechanical</b>                                                   |               |                         |                |
| Tensile Stress at Yield, (Type 1A, 50 mm/min)                       | 33.0          | MPa                     | ISO 527-2      |
| Tensile Strain at Yield, (Type 1A, 50 mm/min)                       | 6.0           | %                       | ISO 527-2      |
| Tensile Modulus, (1 mm/min, Type 1A)                                | 2600          | MPa                     | ISO 527-1      |
| <b>Impact</b>                                                       |               |                         |                |
| Charpy Impact Strength - Notched                                    |               |                         |                |
| (23 °C, Type 1, Edgewise, Notch A)                                  | 3.0           | kJ/m <sup>2</sup>       | ISO 179        |
| (-30 °C, Type 1, Edgewise, Notch A)                                 | 2.0           | kJ/m <sup>2</sup>       | ISO 179        |
| Charpy Impact Strength - Unnotched                                  |               |                         |                |
| (23 °C, Type 1, Edgewise)                                           | 38            | kJ/m <sup>2</sup>       | ISO 179        |
| (-30 °C, Type 1, Edgewise)                                          | 14            | kJ/m <sup>2</sup>       | ISO 179        |
| <b>Hardness</b>                                                     |               |                         |                |
| Ball Indentation Hardness, (H 358/30)                               | 82.0          | MPa                     | ISO 2039-1     |
| Ball Pressure Test, (125 °C)                                        | Pass          |                         | IEC 60695-10-2 |
| <b>Thermal</b>                                                      |               |                         |                |
| Vicat Softening Temperature                                         |               |                         |                |
| (B (50N), 50 °C/h)                                                  | 84.0          | °C                      | ISO 306        |
| (A (10N), 50 °C/h)                                                  | 152           | °C                      | ISO 306        |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise) | 109           | °C                      | ISO 75-2/B     |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 58.0          | °C                      | ISO 75-2/A     |
| <b>Flammable</b>                                                    |               |                         |                |

|                                |        |        |                      |
|--------------------------------|--------|--------|----------------------|
| Burning Rate                   |        |        |                      |
| (2.00 mm)                      | <100   | mm/min | ISO 3795             |
| (2.00 mm)                      | <100   | mm/min | FMVSS 302            |
| Glow Wire Flammability Index   |        |        |                      |
| (1.5 mm)                       | 725    | °C     | IEC 60695-2-12       |
| (3.0 mm)                       | 725    | °C     | IEC 60695-2-12       |
| Glow Wire Ignition Temperature |        |        |                      |
| (1.5 mm)                       | 750    | °C     | IEC 60695-2-13       |
| (3.0 mm)                       | 750    | °C     | IEC 60695-2-13       |
| <b>UL Information</b>          |        |        |                      |
| Flammability Classification    |        |        |                      |
| (1.5 mm)                       | HB     |        | IEC 60695-11-10, -20 |
| (3.0 mm)                       | HB     |        | IEC 60695-11-10, -20 |
| UL File Number, (Global)       | E86615 |        |                      |



| Injection Parameters   | Nominal Value | Units |
|------------------------|---------------|-------|
| Drying Time            | 2.0 to 3.0    | hr    |
| Drying Temperature     | 80            | °C    |
| Processing (Melt) Temp | 220 to 260    | °C    |
| Injection Rate         | Moderate-Fast |       |
| Mold Temperature       | 30 to 60      | °C    |

## 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.

## Company Information

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

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