

## Technical Data Sheet

### Polyfort FPP 20T K1534 NAT 00002



Polypropylene Compounds

#### Product Description

20 % talc filled PP Homopolymer

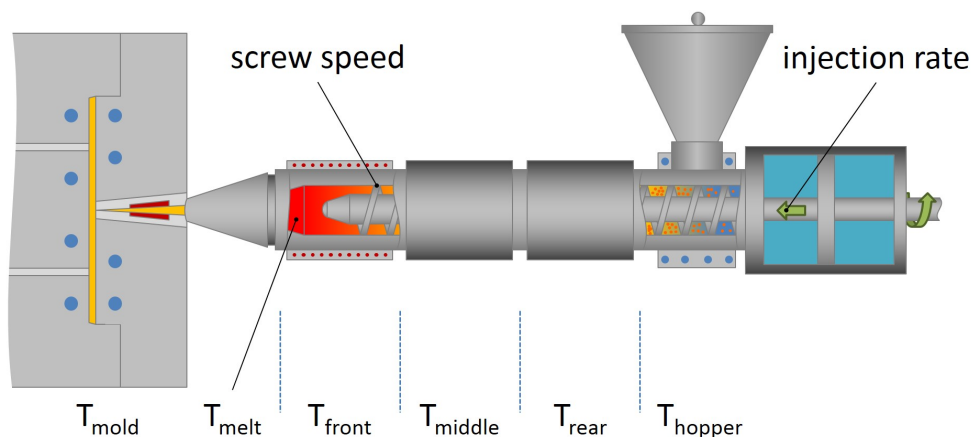
#### Regulatory Status

For regulatory compliance information, see Polyfort FPP 20T K1534 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>            | Food Contact Acceptable; Homopolymer                                   |
| <b>Filler/Reinforcement</b> | Talc, 20%                                                              |

| Typical Properties                                                  | Nominal Value | Units                   | Test Method   |
|---------------------------------------------------------------------|---------------|-------------------------|---------------|
| <b>Physical</b>                                                     |               |                         |               |
| Melt Flow Rate, (230 °C/2.16 kg)                                    | 5.8           | g/10 min                | ISO 1133      |
| Melt Volume Flow Rate, (230 °C/2.16 kg)                             | 7.0           | cm <sup>3</sup> /10 min | ISO 1133      |
| Density, (Method A)                                                 | 1.05          | 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)                       | 5.5           | %                       | ISO 527-2     |
| Tensile Modulus, (1 mm/min, Type 1A)                                | 2700          | MPa                     | ISO 527-1     |
| <b>Impact</b>                                                       |               |                         |               |
| Charpy Impact Strength - Notched                                    |               |                         |               |
| (23 °C, Type 1, Edgewise, Notch A)                                  | 4.0           | kJ/m <sup>2</sup>       | ISO 179       |
| (-30 °C, Type 1, Edgewise, Notch A)                                 | 3.0           | kJ/m <sup>2</sup>       | ISO 179       |
| Charpy Impact Strength - Unnotched                                  |               |                         |               |
| (23 °C, Type 1, Edgewise)                                           | 43            | kJ/m <sup>2</sup>       | ISO 179       |
| (-30 °C, Type 1, Edgewise)                                          | 17            | kJ/m <sup>2</sup>       | ISO 179       |
| Notched Izod Impact Strength, (23 °C, Type 1, Notch A)              | 3.0           | kJ/m <sup>2</sup>       | ISO 180       |
| Notched Izod Impact (Area), (23 °C)                                 | 4.00          | kJ/m <sup>2</sup>       | ASTM D256     |
| <b>Hardness</b>                                                     |               |                         |               |
| Ball Indentation Hardness, (H 358/30)                               | 73.0          | MPa                     | ISO 2039-1    |
| <b>Thermal</b>                                                      |               |                         |               |
| Vicat Softening Temperature                                         |               |                         |               |
| (B (50N), 50 °C/h)                                                  | 70.0          | °C                      | ISO 306       |
| (A (10N), 120 °C/h)                                                 | 155           | °C                      | ISO 306       |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise) | 105           | °C                      | ISO 75-2/B    |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | 65.0          | °C                      | ISO 75-2/A    |
| <b>Electrical</b>                                                   |               |                         |               |
| Volume Resistivity                                                  | >1.0E+13      | ohm*m                   | IEC 62631-3-1 |

|                                       |          |        |                      |
|---------------------------------------|----------|--------|----------------------|
| Surface Resistivity                   | >1.0E+15 | ohm    | IEC 60093            |
| <b>Flammable</b>                      |          |        |                      |
| Burning Rate                          |          |        |                      |
| (2.00 mm)                             | <100     | mm/min | FMVSS 302            |
| (2.00 mm)                             | <100     | mm/min | ISO 3795             |
| Glow Wire Flammability Index          | 750      | °C     | IEC 60695-2-12       |
| <b>Additional Information</b>         |          |        |                      |
| Water Absorption 23C/50RH             | 0.2      | %      | ISO 62               |
| <b>UL Information</b>                 |          |        |                      |
| Flammability Classification, (1.5 mm) | HB       |        | IEC 60695-11-10, -20 |



| 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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