

## Technical Data Sheet

### *Polyfort* TPP1B40HBNANAT



Polypropylene, Homopolymer

#### Product Description

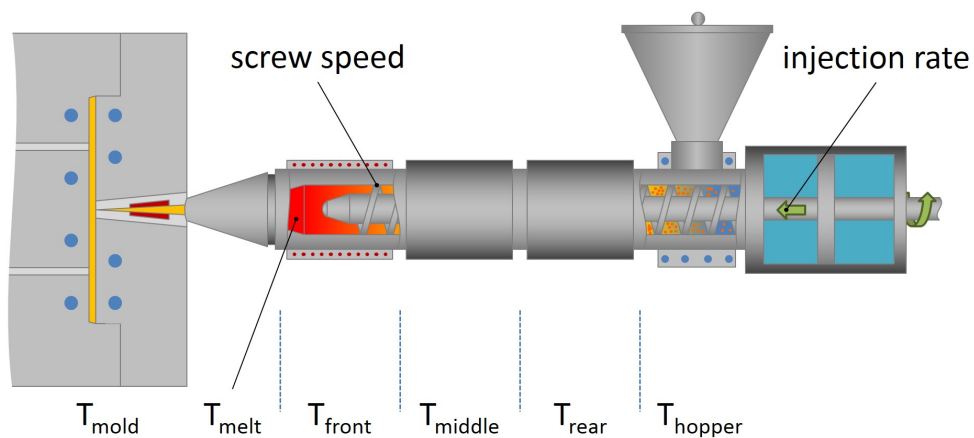
*Polyfort* TPP1B40HBNANAT is a Polypropylene Homopolymer Talc, 40% filled material and is typically used in Injection Molding applications. Features include: Homopolymer.

#### Regulatory Status

For regulatory compliance information, see TPP1B40HBNANAT [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

|                             |                   |
|-----------------------------|-------------------|
| <b>Status</b>               | Discontinued      |
| <b>Availability</b>         | North America     |
| <b>Processing Method</b>    | Injection Molding |
| <b>Attribute</b>            | Homopolymer       |
| <b>Forms</b>                | Pellets           |
| <b>Filler/Reinforcement</b> | Talc, 40%         |

| Typical Properties                                                | Nominal Value | Units             | Test Method |
|-------------------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                                   |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)                                  | 10            | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                                        | 1.24          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                                 |               |                   |             |
| Tensile Elongation at Yield, (23 °C, 3.18 mm)                     | 5.0           | %                 | ASTM D638   |
| Tensile Strength at Yield, (23 °C, 3.18 mm)                       | 31.0          | MPa               | ASTM D638   |
| Flexural Modulus, (23 °C, 3.18 mm, Tangent)                       | 3450          | MPa               | ASTM D790   |
| <b>Impact</b>                                                     |               |                   |             |
| Gardner Impact, (23 °C, 3.18 mm)                                  | 0.452         | J                 | ASTM D3029  |
| Notched Izod Impact, (23 °C, 3.18 mm)                             | 27            | J/m               | ASTM D256   |
| <b>Hardness</b>                                                   |               |                   |             |
| Durometer Hardness, (Shore D, 3.18 mm)                            | 76            |                   | ASTM D2240  |
| <b>Thermal</b>                                                    |               |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm) | 82.2          | °C                | ASTM D648   |
| Deflection Temperature Under Load Unannealed (66 psi), (3.18 mm)  | 132           | °C                | ASTM D648   |
| <b>UL Information</b>                                             |               |                   |             |
| Flame Rating, (1.6 mm)                                            | HB            |                   | UL 94       |



| Injection Parameters   | Nominal Value | Units |
|------------------------|---------------|-------|
| Drying Time            | 2.0 to 4.0    | hr    |
| Drying Temperature     | 82 to 104     | °C    |
| Processing (Melt) Temp | 199 to 227    | °C    |
| Front Temperature      | 177 to 221    | °C    |
| Middle Temperature     | 177 to 221    | °C    |
| Rear Temperature       | 177 to 221    | °C    |
| Injection Rate         | Moderate      |       |
| Back Pressure          | 0.138 to 2.07 | MPa   |
| Mold Temperature       | 21 to 49      | °C    |
| Cushion                | 6.35 to 12.7  | mm    |

## 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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