

## Technical Data Sheet

### Polyfort RPP30EA18BK-MR GAPEX



Polypropylene, Homopolymer

#### Product Description

Primary use is for battery tray supports.

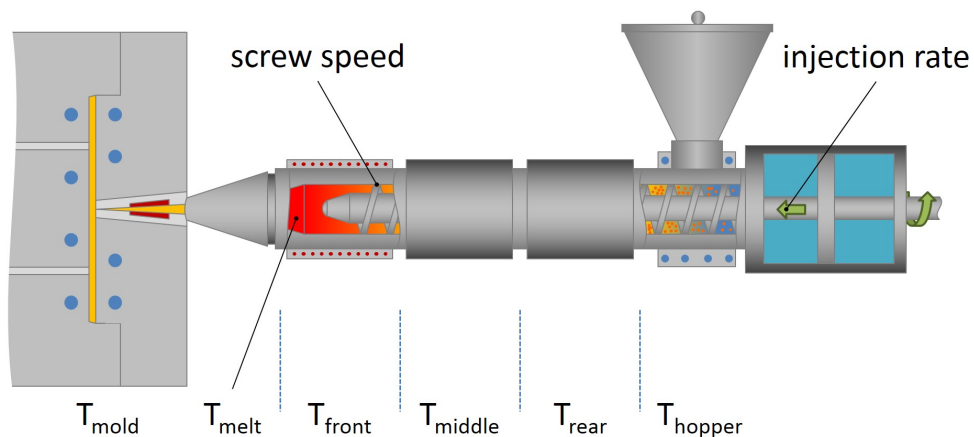
#### Regulatory Status

For regulatory compliance information, see RPP30EA18BK-MR GAPEX [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                      |                                     |
|----------------------|-------------------------------------|
| Status               | Commercial: Active                  |
| Availability         | Latin America; North America        |
| Processing Method    | Injection Molding                   |
| Attribute            | Chemically Coupled; Heat Stabilized |
| Forms                | Pellets                             |
| Appearance           | Black                               |
| Additive             | Heat Stabilizer                     |
| Application          | Support Trays                       |
| Filler/Reinforcement | Glass Fiber, 30%                    |

| Typical Properties             | Nominal Value | Units             | Test Method |
|--------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                |               |                   |             |
| Melt Flow Rate                 |               |                   |             |
| (230 °C/2.16 kg)               | 4.0           | g/10 min          | ASTM D1238  |
| (230 °C/2.16 kg)               | 3.8           | g/10 min          | ISO 1133    |
| Density                        | 1.14          | g/cm <sup>3</sup> | ISO 1183    |
| Density - Specific Gravity     | 1.13          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>              |               |                   |             |
| Flexural Modulus               | 4750          | MPa               | ASTM D790   |
| Tensile Elongation at Break    | 4             | %                 | ASTM D638   |
| Tensile Stress at Break        | 72.4          | MPa               | ISO 527-2   |
| <b>Impact</b>                  |               |                   |             |
| Notched Izod Impact Strength   |               |                   |             |
| (23 °C)                        | 6.8           | kJ/m <sup>2</sup> | ISO 180     |
| (-40 °C)                       | 4.8           | kJ/m <sup>2</sup> | ISO 180     |
| Gardner Impact                 | 0.565         | J                 | ASTM D3029  |
| Unnotched Izod Impact, (23 °C) | 530           | J/m               | ASTM D4812  |
| Notched Izod Impact            |               |                   |             |
| (23 °C)                        | 65            | J/m               | ASTM D256   |
| (-40 °C)                       | 48            | J/m               | ASTM D256   |
| <b>Hardness</b>                |               |                   |             |
| Durometer Hardness, (Shore D)  | 95            |                   | ASTM D2240  |
| <b>Thermal</b>                 |               |                   |             |

|                                                         |        |            |
|---------------------------------------------------------|--------|------------|
| Deflection Temperature Under Load Unannealed (0.45 MPa) | 152 °C | ISO 75-2/B |
| Deflection Temperature Under Load Unannealed (1.80 MPa) | 139 °C | ISO 75-2/A |
| Deflection Temperature Under Load Unannealed (264 psi)  | 149 °C | ASTM D648  |
| Deflection Temperature Under Load Unannealed (66 psi)   | 163 °C | ASTM D648  |



| Injection Parameters   | Nominal Value  | Units |
|------------------------|----------------|-------|
| Drying Time            | 2.0 to 4.0     | hr    |
| Drying Temperature     | 71 to 82       | °C    |
| Nozzle Temperature     | 232 to 260     | °C    |
| Processing (Melt) Temp | 221 to 238     | °C    |
| Front Temperature      | 232 to 260     | °C    |
| Middle Temperature     | 227 to 243     | °C    |
| Rear Temperature       | 221 to 238     | °C    |
| Injection Rate         | Slow-Moderate  |       |
| Back Pressure          | 0.138 to 0.345 | MPa   |
| Mold Temperature       | 38 to 66       | °C    |
| Cushion                | 5.08 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/>.

© LyondellBasell Industries Holdings, B.V. 2018

## Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

## Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.