

## Technical Data Sheet

**Fiberfil J-69/20/E**

Polypropylene Homopolymer  
LyondellBasell Industries  
Engineering Plastics

**General**

|                        |                                     |
|------------------------|-------------------------------------|
| Material Status        | • Commercial: Active                |
| Availability           | • North America                     |
| Filler / Reinforcement | • Glass Fiber, 20% Filler by Weight |
| Features               | • Chemically Coupled • Homopolymer  |
| Forms                  | • Pellets                           |

| Physical                                  | Nominal Value (English) | Nominal Value (SI)     | Test Method |
|-------------------------------------------|-------------------------|------------------------|-------------|
| Density / Specific Gravity                | 1.05                    | 1.05 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 12 g/10 min             | 12 g/10 min            | ASTM D1238  |
| Water Absorption (24 hr)                  | 0.030 %                 | 0.030 %                | ASTM D570   |
| Mechanical                                | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Tensile Modulus (73°F (23°C))             | 750000 psi              | 5170 MPa               | ASTM D638   |
| Tensile Strength (73°F (23°C))            | 13000 psi               | 89.6 MPa               | ASTM D638   |
| Tensile Elongation (Yield, 73°F (23°C))   | 2.5 %                   | 2.5 %                  | ASTM D638   |
| Flexural Modulus - Tangent (73°F (23°C))  | 620000 psi              | 4270 MPa               | ASTM D790   |
| Flexural Strength (73°F (23°C))           | 14600 psi               | 101 MPa                | ASTM D790   |
| Impact                                    | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Notched Izod Impact                       |                         |                        | ASTM D256   |
| 73°F (23°C), 0.125 in (3.18 mm)           | 1.2 ft-lb/in            | 64 J/m                 |             |
| Hardness                                  | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Rockwell Hardness (R-Scale)               | 105 to 110              | 105 to 110             | ASTM D785   |
| Thermal                                   | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Deflection Temperature Under Load         |                         |                        | ASTM D648   |
| 66 psi (0.45 MPa), Unannealed             | 320 °F                  | 160 °C                 |             |
| 264 psi (1.8 MPa), Unannealed             | 310 °F                  | 154 °C                 |             |

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| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Rear Temperature       | 400 to 430 °F           | 204 to 221 °C      |
| Middle Temperature     | 420 to 450 °F           | 216 to 232 °C      |
| Front Temperature      | 400 to 440 °F           | 204 to 227 °C      |
| Nozzle Temperature     | 400 to 430 °F           | 204 to 221 °C      |
| Processing (Melt) Temp | 410 to 450 °F           | 210 to 232 °C      |
| Mold Temperature       | 100 to 150 °F           | 38 to 66 °C        |
| Injection Rate         | Slow                    | Slow               |
| Back Pressure          | 25.0 to 50.0 psi        | 0.172 to 0.345 MPa |

#### Injection Notes

Screw speed: Slow to Medium

#### 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.

#### Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

#### Company Information

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

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