

## Technical Data Sheet

### Polyfort J-69/30/E/M BG9411BEI



Polypropylene, Homopolymer

#### Product Description

Polyfort J-69/30/E/M BG9411BEI is a Polypropylene Homopolymer Glass Fiber, 30% filled material. Features include: Chemically Coupled, and Homopolymer.

**Attribute** Chemically Coupled; Homopolymer

**Forms** Pellets

**Filler/Reinforcement** Glass Fiber, 30%

| Typical Properties                                     | Nominal Value | Units             | Test Method |
|--------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                        |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)                       | 13            | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                             | 1.13          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                      |               |                   |             |
| Tensile Strength, (23 °C)                              | 100           | MPa               | ASTM D638   |
| Tensile Elongation at Yield, (23 °C)                   | 2.0           | %                 | ASTM D638   |
| Flexural Modulus, (23 °C, Tangent)                     | 6210          | MPa               | ASTM D790   |
| Tensile Modulus, (23 °C)                               | 6890          | MPa               | ASTM D638   |
| Flexural Strength, (23 °C)                             | 124           | MPa               | ASTM D790   |
| <b>Impact</b>                                          |               |                   |             |
| Notched Izod Impact, (23 °C, 3.18 mm)                  | 96            | J/m               | ASTM D256   |
| <b>Hardness</b>                                        |               |                   |             |
| Rockwell Hardness, (R-Scale)                           | 105 to 110    |                   | ASTM D785   |
| <b>Thermal</b>                                         |               |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi) | 154           | °C                | ASTM D648   |
| Deflection Temperature Under Load Unannealed (66 psi)  | 160           | °C                | ASTM D648   |
| <b>Additional Information</b>                          |               |                   |             |
| Water Absorption at 24 hrs                             | 0.03          | %                 | ASTM D570   |

| Injection Parameters   | Nominal Value  | Units |
|------------------------|----------------|-------|
| Nozzle Temperature     | 204 to 221     | °C    |
| Processing (Melt) Temp | 210 to 232     | °C    |
| Front Temperature      | 204 to 227     | °C    |
| Middle Temperature     | 216 to 232     | °C    |
| Rear Temperature       | 204 to 221     | °C    |
| Injection Rate         | Slow           |       |
| Back Pressure          | 0.172 to 0.345 | MPa   |
| Mold Temperature       | 38 to 66       | °C    |