

## Technical Data Sheet

### *Polyfort* FPP3B30HUBKBLK

Polypropylene, Homopolymer

#### Product Description

FPP3B30HUBK is a 30% Glass-Reinforced, Chemically Coupled Polypropylene, Black

|                      |                   |
|----------------------|-------------------|
| Processing Method    | Injection Molding |
| Attribute            | Homopolymer       |
| Forms                | Pellets           |
| Filler/Reinforcement | Glass Fiber, 30%  |

| Typical Properties                                     | Nominal Value | Units             | Test Method |
|--------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                        |               |                   |             |
| Melt Flow Rate                                         | 7             | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                             | 1.14          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                      |               |                   |             |
| Tensile Strength at Yield, (23 °C)                     | 75.2          | MPa               | ASTM D638   |
| Flexural Modulus                                       | 5100          | MPa               | ASTM D790   |
| Tensile Elongation at Break                            | 12            | %                 | ASTM D638   |
| <b>Impact</b>                                          |               |                   |             |
| Notched Izod Impact, (23 °C, 3.18 mm)                  | 140           | J/m               | ASTM D256   |
| <b>Thermal</b>                                         |               |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi) | 143           | °C                | ASTM D648   |
| Deflection Temperature Under Load Unannealed (66 psi)  | 157           | °C                | ASTM D648   |
| <b>UL Information</b>                                  |               |                   |             |
| Flame Rating, (UL 94)                                  | HB            |                   | UL 94       |
| UL File Number                                         | E51193        |                   |             |

| Injection Parameters   | Nominal Value | Units |
|------------------------|---------------|-------|
| Drying Time            | 2.0 to 4.0    | hr    |
| Drying Temperature     | 82 to 104     | °C    |
| Screw Speed            | 20 to 60      | rpm   |
| Processing (Melt) Temp | 199 to 243    | °C    |
| Front Temperature      | 199 to 243    | °C    |
| Middle Temperature     | 199 to 243    | °C    |
| Rear Temperature       | 199 to 243    | °C    |
| Injection Rate         | Moderate      |       |
| Back Pressure          | <0.345        | MPa   |
| Mold Temperature       | 16 to 66      | °C    |
| Cushion                | 6.35 to 12.7  | mm    |