

## Technical Data Sheet

### *Polyfort* FPP3B15CCBKBLK



Polypropylene, Homopolymer

#### Product Description

FPP3B15CC is a 15% Glass-Reinforced, Chemically Coupled, Hi-Impact Polypropylene

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <b>Processing Method</b>    | Injection Molding                          |
| <b>Attribute</b>            | Chemically Coupled; High Impact Resistance |
| <b>Forms</b>                | Pellets                                    |
| <b>Appearance</b>           | Colors Available                           |
| <b>Filler/Reinforcement</b> | Glass Fiber, 15%                           |

| Typical Properties                                     | Nominal Value | Units             | Test Method |
|--------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                        |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)                       | 8.0           | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                             | 0.998         | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                      |               |                   |             |
| Tensile Strength at Yield, (23 °C)                     | 46.2          | MPa               | ASTM D638   |
| Flexural Modulus, (Tangent)                            | 2410          | MPa               | ASTM D790   |
| <b>Impact</b>                                          |               |                   |             |
| Notched Izod Impact                                    | 150           | J/m               | ASTM D256   |
| <b>Thermal</b>                                         |               |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi) | 118           | °C                | ASTM D648   |
| Deflection Temperature Under Load Unannealed (66 psi)  | 149           | °C                | ASTM D648   |

| 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    |