

## Technical Data Sheet

### *Polyfort* FPP4B20CCUVWH170



Polypropylene, Homopolymer

#### Product Description

*Polyfort* FPP4B20CCUV is a 20% Glass-Reinforced, UV Stabilized, Chemically-Coupled Polypropylene

|                             |                                   |
|-----------------------------|-----------------------------------|
| <b>Processing Method</b>    | Injection Molding                 |
| <b>Attribute</b>            | Chemically Coupled; UV Stabilized |
| <b>Forms</b>                | Pellets                           |
| <b>Appearance</b>           | Colors Available                  |
| <b>Filler/Reinforcement</b> | Glass Fiber, 20%                  |

| Typical Properties                    | Nominal Value | Units             | Test Method |
|---------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                       |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)      | 11            | g/10 min          | ASTM D1238  |
| Density - Specific Gravity            | 1.05          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                     |               |                   |             |
| Tensile Strength at Yield, (23 °C)    | 46.5          | MPa               | ASTM D638   |
| Flexural Modulus                      | 3270          | MPa               | ASTM D790   |
| Tensile Elongation at Break           | 12            | %                 | ASTM D638   |
| Flexural Strength                     | 66            | MPa               | ASTM D790   |
| <b>Impact</b>                         |               |                   |             |
| Notched Izod Impact, (23 °C, 3.18 mm) | 170           | J/m               | ASTM D256   |

| 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    |