

## Technical Data Sheet

### Polyfort RPP25DZ08BKBLK



Polypropylene, Homopolymer

#### Product Description

Polyfort RPP25DZ08BKBLK is a Polypropylene Homopolymer Glass Bead\Glass Fiber, 25% filled material and is typically used in Injection Molding applications.

|                      |                             |
|----------------------|-----------------------------|
| Processing Method    | Injection Molding           |
| Forms                | Pellets                     |
| Appearance           | Black                       |
| Filler/Reinforcement | Glass Bead\Glass Fiber, 25% |

| Typical Properties                                     | Nominal Value | Units             | Test Method |
|--------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                        |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)                       | 9.0           | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                             | 1.08          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                      |               |                   |             |
| Tensile Strength, (23 °C)                              | 44.8          | MPa               | ASTM D638   |
| Flexural Modulus                                       |               |                   |             |
| (23 °C, 1% Secant)                                     | 2630          | MPa               | ASTM D790   |
| (23 °C, Tangent)                                       | 2960          | MPa               | ASTM D790   |
| Tensile Elongation at Break, (23 °C)                   | 5.0           | %                 | ASTM D638   |
| Flexural Strength, (23 °C)                             | 67.6          | MPa               | ASTM D790   |
| <b>Impact</b>                                          |               |                   |             |
| Gardner Impact, (23 °C)                                | 0.339         | J                 | ASTM D5420  |
| Unnotched Izod Impact, (23 °C)                         | 350           | J/m               | ASTM D4812  |
| Notched Izod Impact, (23 °C)                           | 37            | J/m               | ASTM D256   |
| <b>Thermal</b>                                         |               |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi) | 141           | °C                | ASTM D648   |
| Deflection Temperature Under Load Unannealed (66 psi)  | 152           | °C                | ASTM D648   |
| <b>UL Information</b>                                  |               |                   |             |
| Flame Rating                                           |               |                   |             |
| (1.5 mm)                                               | HB            |                   | UL 94       |
| (3.0 mm)                                               | HB            |                   | UL 94       |
| UL File Number                                         | E51193        |                   |             |

| Injection Parameters   | Nominal Value  | Units |
|------------------------|----------------|-------|
| Drying Time            | 2.0 to 4.0     | hr    |
| Drying Temperature     | 71 to 82       | °C    |
| Nozzle Temperature     | 232 to 260     | °C    |
| Processing (Melt) Temp | 221 to 238     | °C    |
| Front Temperature      | 232 to 260     | °C    |
| Middle Temperature     | 227 to 243     | °C    |
| Rear Temperature       | 221 to 238     | °C    |
| Injection Rate         | Slow-Moderate  |       |
| Back Pressure          | 0.138 to 0.345 | MPa   |
| Mold Temperature       | 38 to 66       | °C    |
| Cushion                | 5.08 to 12.7   | mm    |