

## Technical Data Sheet

### *Polyfort* PP3A0BKBLK

Polypropylene Copolymer

#### Product Description

PP3A0BK is an Unfilled, Medium/High Impact Polypropylene Copolymer

|                   |                   |
|-------------------|-------------------|
| Processing Method | Injection Molding |
| Attribute         | Copolymer         |
| Forms             | Pellets           |
| Appearance        | Black             |

| Typical Properties                                    | Nominal Value | Units             | Test Method |
|-------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                       |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)                      | 7.8           | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                            | 0.908         | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                     |               |                   |             |
| Tensile Elongation at Yield                           | 19            | %                 | ASTM D638   |
| Tensile Strength at Yield, (23 °C)                    | 27.4          | MPa               | ASTM D638   |
| Flexural Modulus, (Tangent)                           | 1150          | MPa               | ASTM D790   |
| <b>Impact</b>                                         |               |                   |             |
| Notched Izod Impact, (23 °C, 3.18 mm)                 | 140           | J/m               | ASTM D256   |
| <b>Thermal</b>                                        |               |                   |             |
| Deflection Temperature Under Load Unannealed (66 psi) | 86.1          | °C                | ASTM D648   |

| Injection Parameters                  | Nominal Value | Units |
|---------------------------------------|---------------|-------|
| Drying Time                           | 2.0 to 4.0    | hr    |
| Drying Temperature, (Desiccant Dryer) | 82            | °C    |
| Processing (Melt) Temp                | 193 to 232    | °C    |
| Front Temperature                     | 177 to 232    | °C    |
| Middle Temperature                    | 177 to 232    | °C    |
| Rear Temperature                      | 177 to 232    | °C    |
| Injection Rate                        | Moderate      |       |
| Back Pressure                         | 0.138 to 2.07 | MPa   |
| Mold Temperature                      | 21 to 49      | °C    |
| Cushion                               | 6.35 to 12.7  | mm    |