

## Technical Data Sheet

### *Polyfort* TPP20AC16BK-BKBLK

Polypropylene, Homopolymer

#### Product Description

Meets/Exceeds Ford Engineering Specification ESH-M4D293-A. Primary end use is for blower wheels and similar components.

|                      |                              |
|----------------------|------------------------------|
| Processing Method    | Injection Molding            |
| Attribute            | Heat Stabilized; Homopolymer |
| Forms                | Pellets                      |
| Appearance           | Black                        |
| Additive             | Heat Stabilizer              |
| Filler/Reinforcement | Talc, 22%                    |

| Typical Properties                                     | Nominal Value | Units             | Test Method |
|--------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                        |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)                       | 5.6           | g/10 min          | ASTM D1238  |
| Density - Specific Gravity                             | 1.08          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                                      |               |                   |             |
| Tensile Strength, (23 °C)                              | 30.4          | MPa               | ASTM D638   |
| Flexural Modulus                                       | 2500          | MPa               | ASTM D790   |
| Tensile Elongation at Break                            | 12            | %                 | ASTM D638   |
| <b>Impact</b>                                          |               |                   |             |
| Unnotched Izod Impact, (23 °C)                         | 470           | J/m               | ASTM D4812  |
| Notched Izod Impact, (23 °C)                           | 30            | J/m               | ASTM D256   |
| <b>Thermal</b>                                         |               |                   |             |
| Deflection Temperature Under Load Unannealed (264 psi) | 68            | °C                | ASTM D648   |
| Deflection Temperature Under Load Unannealed (66 psi)  | 119           | °C                | ASTM D648   |

| Injection Parameters   | Nominal Value | Units |
|------------------------|---------------|-------|
| Drying Time            | 2.0 to 3.0    | hr    |
| Drying Temperature     | 80            | °C    |
| Processing (Melt) Temp | 220 to 260    | °C    |
| Mold Temperature       | 30 to 60      | °C    |