

## Technical Data Sheet

### *Polyfort* TPP20AE63BK-BKBLK



Polypropylene, Homopolymer

#### Product Description

20% Talc filled, heat-stabilized, homopolymer polypropylene containing 25% P.C.R., precolored black. Meets/Exceeds Ford Engineering Specification WSH-M4D293-B2. Primary end use is for AC/heater housings.

|                             |                              |
|-----------------------------|------------------------------|
| <b>Processing Method</b>    | Injection Molding            |
| <b>Attribute</b>            | Heat Stabilized; Homopolymer |
| <b>Forms</b>                | Pellets                      |
| <b>Appearance</b>           | Black                        |
| <b>Additive</b>             | Heat Stabilizer              |
| <b>Application</b>          | Housings                     |
| <b>Filler/Reinforcement</b> | Talc, 21%                    |

| Typical Properties                                      | Nominal Value | Units             | Test Method |
|---------------------------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                                         |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)                        | 6.3           | g/10 min          | ISO 1133    |
| Density                                                 | 1.06          | g/cm <sup>3</sup> | ISO 1183    |
| <b>Mechanical</b>                                       |               |                   |             |
| Tensile Stress at Yield, (23 °C)                        | 30.3          | MPa               | ISO 527-2   |
| Flexural Modulus                                        | 2500          | MPa               | ISO 178     |
| <b>Impact</b>                                           |               |                   |             |
| Notched Izod Impact Strength                            |               |                   |             |
| (23 °C)                                                 | 3.5           | kJ/m <sup>2</sup> | ISO 180     |
| (-40 °C)                                                | 2.3           | kJ/m <sup>2</sup> | ISO 180     |
| <b>Thermal</b>                                          |               |                   |             |
| Deflection Temperature Under Load Unannealed (0.45 MPa) | 120           | °C                | ISO 75-2/B  |
| Deflection Temperature Under Load Unannealed (1.80 MPa) | 71            | °C                | ISO 75-2/A  |

| 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    |