

Technical Data Sheet

# Ferro Pp TPP40AJ32BK

Polypropylene Homopolymer  
 LyondellBasell Industries  
 Engineering Plastics

| General                |                                 |
|------------------------|---------------------------------|
| Filler / Reinforcement | • Talc, 40% Filler by Weight    |
| Additive               | • Heat Stabilizer               |
| Features               | • Heat Stabilized • Homopolymer |
| Forms                  | • Pellets                       |
| Processing Method      | • Injection Molding             |

| Physical                                  | Nominal Value (English) | Nominal Value (SI)     | Test Method |
|---|-------------------------|------------------------|-------------|
| Density / Specific Gravity                | 1.26                    | 1.26 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg) | 17 g/10 min             | 17 g/10 min            | ASTM D1238  |

| Mechanical                              | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-------------------------|--------------------|-------------|
| Tensile Strength (Yield, 73°F (23°C))   | 4500 psi                | 31.0 MPa           | ASTM D638   |
| Tensile Elongation (Break, 73°F (23°C)) | 7.0 %                   | 7.0 %              | ASTM D638   |
| Flexural Modulus                        |                         |                    | ASTM D790   |
| 1% Secant : 73°F (23°C)                 | 496000 psi              | 3420 MPa           |             |
| Tangent : 73°F (23°C)                   | 585000 psi              | 4030 MPa           |             |
| Flexural Strength (Yield, 73°F (23°C))  | 7500 psi                | 51.7 MPa           | ASTM D790   |

| Impact                              | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-------------------------------------|-------------------------|--------------------|-------------|
| Notched Izod Impact (73°F (23°C))   | 0.40 ft-lb/in           | 21 J/m             | ASTM D256   |
| Unnotched Izod Impact (73°F (23°C)) | 3.5 ft-lb/in            | 190 J/m            | ASTM D4812  |
| Gardner Impact                      | 4.00 in-lb              | 0.452 J            | ASTM D5420  |

| Thermal                           | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-----------------------------------|-------------------------|--------------------|-------------|
| Deflection Temperature Under Load |                         |                    | ASTM D648   |
| 66 Psi (0.45 Mpa), Unannealed     | 275 °F                  | 135 °C             |             |
| 264 Psi (1.8 Mpa), Unannealed     | 185 °F                  | 85.0 °C            |             |

| Additional Information      |     |
|-----------------------------|-----|
| Filler Content, ASTM D2584: | 40% |

Technical Data Sheet

**Ferro Pp TPP40AJ32BK**

Polypropylene Homopolymer  
LyondellBasell Industries  
Engineering Plastics



| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 176 °F                  | 80 °C              |
| Drying Time            | 2.0 to 3.0 hr           | 2.0 to 3.0 hr      |
| Processing (Melt) Temp | 428 to 500 °F           | 220 to 260 °C      |
| Mold Temperature       | 86 to 140 °F            | 30 to 60 °C        |

**Notes**

These are typical property values not to be construed as specification limits.