

Technical Data Sheet

Ferro Pp NPP00GD01BK

Polypropylene
LyondellBasell Industries
Engineering Plastics

| General | |
|---------------------------|-----------------------------|
| Features | • Good Impact Resistance |
| Automotive Specifications | • CHRYSLER MS-DB-543 Type B |
| Appearance | • Black |
| Forms | • Pellets |
| Processing Method | • Injection Molding |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-------------------------|-------------------------|-------------|
| Density / Specific Gravity | 0.920 | 0.918 g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg) | 8.0 g/10 min | 8.0 g/10 min | ASTM D1238 |

| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|----------------------------|-------------------------|--------------------|-------------|
| Tensile Strength (Yield) | 3800 psi | 26.2 MPa | ASTM D638 |
| Tensile Elongation (Break) | 45 % | 45 % | ASTM D638 |
| Flexural Modulus | 140000 psi | 965 MPa | ASTM D790 |
| Flexural Strength (Yield) | 4500 psi | 31.0 MPa | ASTM D790 |

| Impact | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--|-------------------------|--------------------|-------------|
| Notched Izod Impact 73°F (23°C), 0.125 In (3.18 Mm) | 1.9 ft·lb/in | 99 J/m | ASTM D256 |
| Unnotched Izod Impact 73°F (23°C), 0.125 In (3.18 Mm) | 20 ft·lb/in | 1100 J/m | ASTM D4812 |
| Gardner Impact -40°F (-40°C) | 25.0 in·lb | 2.82 J | ASTM D3029 |
| 73°F (23°C) | 140 in·lb | 15.8 J | |

| Thermal | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--|-------------------------|--------------------|-------------|
| Deflection Temperature Under Load 66 Psi (0.45 Mpa), Unannealed | 200 °F | 93.3 °C | ASTM D648 |
| 264 Psi (1.8 Mpa), Unannealed | 125 °F | 51.7 °C | |

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| 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.