

Technical Data Sheet

Ferro Pp TPP20AA10NA

Polypropylene
LyondellBasell Industries
Engineering Plastics

| General | |
|------------------------|------------------------------|
| Filler / Reinforcement | • Talc, 20% Filler by Weight |
| Features | • Homopolymer |
| Appearance | • Natural Color |
| Forms | • Pellets |
| Processing Method | • Injection Molding |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-------------------------|------------------------|-------------|
| Density / Specific Gravity | 1.05 | 1.05 g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg) | 2.5 g/10 min | 2.5 g/10 min | ASTM D1238 |

| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-------------------------|--------------------|-------------|
| Tensile Strength (73°F (23°C)) | 5300 psi | 36.5 MPa | ASTM D638 |
| Tensile Elongation (Break, 73°F (23°C)) | 18 % | 18 % | ASTM D638 |
| Flexural Modulus | | | ASTM D790 |
| 1% Secant : 73°F (23°C) | 326000 psi | 2250 MPa | |
| Tangent : 73°F (23°C) | 373000 psi | 2570 MPa | |
| Flexural Strength (73°F (23°C)) | 8100 psi | 55.8 MPa | ASTM D790 |

| Impact | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-------------------------------------|-------------------------|--------------------|-------------|
| Notched Izod Impact (73°F (23°C)) | 1.0 ft·lb/in | 53 J/m | ASTM D256 |
| Unnotched Izod Impact (73°F (23°C)) | 9.0 ft·lb/in | 480 J/m | ASTM D4812 |
| Gardner Impact (73°F (23°C)) | 5.00 in·lb | 0.565 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 | 175 °F | 79.4 °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.