

Technical Data Sheet

# Ferro Pp LPP40BA02NA

Polypropylene Homopolymer

LyondellBasell Industries

Engineering Plastics

**General**

Filler / Reinforcement	• Calcium Carbonate, 41% Filler by Weight
Features	• Homopolymer
Forms	• Pellets
Processing Method	• Injection Molding

**Physical**

	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.07	1.07 g/cm <sup>3</sup>	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))	3300 psi	22.8 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	40 %	40 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	314000 psi	2160 MPa	
Tangent : 73°F (23°C)	343000 psi	2360 MPa	
Flexural Strength (73°F (23°C))	6200 psi	42.7 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))	16 ft·lb/in	850 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	65.0 in·lb	7.34 J	ASTM D5420

**Thermal**

	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	250 °F	121 °C	
264 Psi (1.8 Mpa), Unannealed	165 °F	73.9 °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.