

Technical Data Sheet

Ferro Pp LPP40BC99NA

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

General			
Filler / Reinforcement	• Calcium Carbonate, 40% 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	1.25	1.25 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	12 g/10 min	12 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	3500 psi	24.1 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	30 %	30 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	350000 psi	2410 MPa	
Tangent : 73°F (23°C)	420000 psi	2900 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))	0.60 ft·lb/in	32 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	8.8 ft·lb/in	470 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	45.0 in·lb	5.08 J	ASTM D5420
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	245 °F	118 °C	
264 Psi (1.8 Mpa), Unannealed	160 °F	71.1 °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.