

Technical Data Sheet

Ferro Pp LPP20BN46HB

Polypropylene Copolymer
LyondellBasell Industries
Engineering Plastics

General			
Filler / Reinforcement	• Calcium Carbonate, 20% Filler by Weight		
Features	• Copolymer		
Forms	• Pellets		
Processing Method	• Injection Molding		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.06	1.06 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	16 g/10 min	16 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	3400 psi	23.4 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	80 %	80 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	194000 psi	1340 MPa	
Tangent : 73°F (23°C)	229000 psi	1580 MPa	
Flexural Strength (73°F (23°C))	5200 psi	35.9 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.2 ft·lb/in	64 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	24 ft·lb/in	1300 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	225 in·lb	25.4 J	ASTM D5420
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	208 °F	97.8 °C	
264 Psi (1.8 Mpa), Unannealed	135 °F	57.2 °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
Rear Temperature	360 to 400 °F	182 to 204 °C
Middle Temperature	360 to 410 °F	182 to 210 °C
Front Temperature	360 to 425 °F	182 to 218 °C
Nozzle Temperature	360 to 425 °F	182 to 218 °C
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.