

Technical Data Sheet

Ferro Pp LPP40BN21BK

Polypropylene
LyondellBasell Industries
Engineering Plastics

General			
Filler / Reinforcement	• Calcium Carbonate, 40% Filler by Weight		
Additive	• Impact Modifier		
Features	• General Purpose	• Impact Modified	
	• Good Impact Resistance	• UV Resistant	
Uses	• Handles	• Lawn and Garden Equipment	• Protective Coverings
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.24	1.24 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	17 g/10 min	17 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	2300 psi	15.9 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	15 %	15 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	200000 psi	1380 MPa	
Tangent : 73°F (23°C)	240000 psi	1650 MPa	
Flexural Strength (73°F (23°C))	4000 psi	27.6 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))	23 ft-lb/in	1200 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	165 in-lb	18.6 J	ASTM D5420

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	70	70	ASTM D2240

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	205 °F	96.1 °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	395 to 400 °F	202 to 204 °C
Middle Temperature	400 to 410 °F	204 to 210 °C
Front Temperature	410 to 415 °F	210 to 213 °C
Nozzle Temperature	415 to 425 °F	213 to 218 °C
Processing (Melt) Temp	428 to 500 °F	220 to 260 °C
Mold Temperature	86 to 140 °F	30 to 60 °C
Back Pressure	50.0 to 100 psi	0.345 to 0.689 MPa

Notes

These are typical property values not to be construed as specification limits.