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Technical Data Sheet

Ferro Pp LPP20BN51AL

Polypropylene
LyondellBasell Industries
Engineering Plastics

General	
Filler / Reinforcement	• Calcium Carbonate, 22% Filler by Weight
Additive	• Impact Modifier
Features	• Impact Modified
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.06	1.06 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°c/2.16 Kg)	25 g/10 min	25 g/10 min	ASTM D1238
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (73°f (23°c))	3900 psi	26.9 MPa	ASTM D638
Tensile Elongation (Break, 73°f (23°c))	50 %	50 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°f (23°c)	235000 psi	1620 MPa	
Tangent : 73°f (23°c)	243000 psi	1680 MPa	
Flexural Strength (73°f (23°c))	5900 psi	40.7 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))	12 ft·lb/in	660 J/m	ASTM D4812
Gardner Impact (73°f (23°c))	98.0 in·lb	11.1 J	ASTM D5420
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	215 °F	102 °C	
264 Psi (1.8 Mpa), Unannealed	139 °F	59.4 °C	

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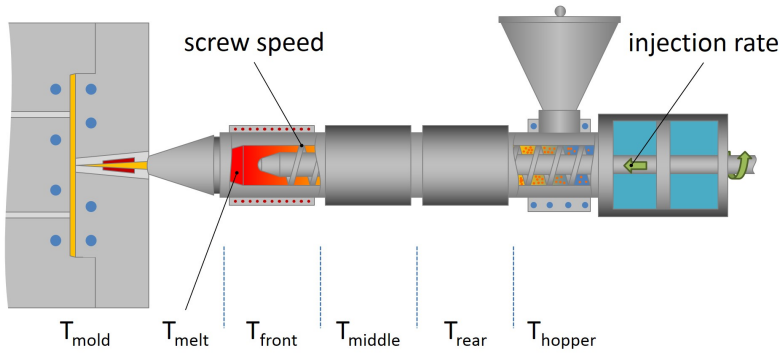

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Processing (Melt) Temp	428 to 500 °F	220 to 260 °C
Mold Temperature	86 to 140 °F	30 to 60 °C

Notes

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