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Technical Data Sheet

Ferro Pp LPP20BN19HB-AL

Polypropylene
LyondellBasell Industries
Engineering Plastics

General			
Filler / Reinforcement	• Calcium Carbonate, 20% Filler by Weight		
Features	• Good Impact Resistance • Good Processability	• Medium Gloss • UV Resistant	
Uses	• Handles	• Lawn and Garden Equipment	• Protective Coverings
Appearance	• Aluminum		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.07	1.07 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°c/2.16 Kg)	24 g/10 min	24 g/10 min	ASTM D1238
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (Yield)	3600 psi	24.8 MPa	ASTM D638
Tensile Elongation (Break)	55 %	55 %	ASTM D638
Flexural Modulus	220000 psi	1520 MPa	ASTM D790
Flexural Strength (Yield)	5500 psi	37.9 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact (73°f (23°c))	0.90 ft·lb/in	48 J/m	ASTM D256
Unnotched Izod Impact (73°f (23°c))	20 ft·lb/in	1100 J/m	ASTM D4812
Gardner Impact	105 in·lb	11.9 J	ASTM D3029
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Durometer Hardness (Shore D)	71	71	ASTM D2240
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	225 °F	107 °C	
264 Psi (1.8 Mpa), Unannealed	145 °F	62.8 °C	

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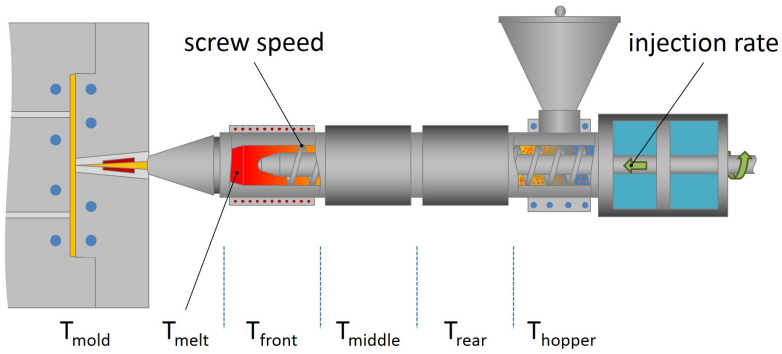

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Rear Temperature	395 to 400 °F	202 to 204 °C
Middle Temperature	400 to 410 °F	204 to 210 °C
Front Temperature	410 to 415 °F	210 to 213 °C
Nozzle Temperature	415 to 425 °F	213 to 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.