

Technical Data Sheet

Ferro Pp NPP00GC12GN

Polypropylene
LyondellBasell Industries
Engineering Plastics

General	
Appearance	• Green
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.910	0.908 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	11 g/10 min	11 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	5500 psi	37.9 MPa	ASTM D638
Tensile Elongation (Break)	40 %	40 %	ASTM D638
Flexural Modulus	215000 psi	1480 MPa	ASTM D790
Flexural Strength (Yield)	6800 psi	46.9 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	0.65 ft·lb/in	35 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	15 ft·lb/in	800 J/m	ASTM D4812
Gardner Impact	10.0 in·lb	1.13 J	ASTM D3029

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-scale)	100	100	ASTM D785
Durometer Hardness (Shore D)	74	74	ASTM D2240

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	240 °F	116 °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
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.