

Technical Data Sheet

# Ferro Pp NPP00GW31

Polypropylene  
LyondellBasell Industries  
Engineering Plastics

General	
Additive	• Impact Modifier
Features	• Impact Modified
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.900	0.898 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	6.5 g/10 min	6.5 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	4500 psi	31.0 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	50 %	50 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	195000 psi	1340 MPa	
Tangent : 73°F (23°C)	206000 psi	1420 MPa	
Flexural Strength (Yield, 73°F (23°C))	6000 psi	41.4 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.5 ft·lb/in	80 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	No Break	No Break	ASTM D4812
Gardner Impact	280 in·lb	31.6 J	ASTM D5420

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	235 °F	113 °C	
264 Psi (1.8 Mpa), Unannealed	140 °F	60.0 °C	
RTI Elec (0.06 In (1.6 Mm))	149 °F	65.0 °C	UL 746B
RTI Imp (0.06 In (1.6 Mm))	149 °F	65.0 °C	UL 746B
RTI Str (0.06 In (1.6 Mm))	149 °F	65.0 °C	UL 746B

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.0025 In (0.063 Mm))	HB	HB	UL 94

Technical Data Sheet

# Ferro Pp NPP00GW31

Polypropylene  
LyondellBasell Industries  
Engineering Plastics



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.