

Technical Data Sheet

# Ferro Pp NPP00GT14UL NATURAL

Polypropylene  
LyondellBasell Industries  
Engineering Plastics

General	
Features	• Flame Retardant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.950	0.948 g/cm <sup>3</sup>	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 (73°F (23°C))	4300 psi	29.6 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	70 %	70 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	188000 psi	1300 MPa	
Tangent : 73°F (23°C)	196000 psi	1350 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))	1.2 ft·lb/in	64 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	15 ft·lb/in	800 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	190 in·lb	21.5 J	ASTM D5420

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	200 °F	93.3 °C	
264 Psi (1.8 Mpa), Unannealed	135 °F	57.2 °C	
RTI Elec (0.06 In (1.6 Mm))	221 °F	105 °C	UL 746B
RTI Imp (0.06 In (1.6 Mm))	221 °F	105 °C	UL 746B
RTI Str (0.06 In (1.6 Mm))	221 °F	105 °C	UL 746B

Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Arc Resistance	136 sec	136 sec	ASTM D495
Comparative Tracking Index (CTI)	600 V	600 V	UL 746A
High Voltage Arc Tracking Rate (HVTR)	0.510 in/min	13.0 mm/min	UL 746A
Hot-wire Ignition (HWI)	53 sec	53 sec	UL 746A

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.06 In (1.6 Mm)	V-2	V-2	
0.13 In (3.2 Mm)	V-2	V-2	

**Additional Information**

The value listed as Comparative Tracking Index was tested in accordance with ASTM D3638.  
California Furniture Testing, TB 133: Passed

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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.