

Technical Data Sheet

Ferro Pp NPP00GT18UL 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	1.04	1.04 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	15 g/10 min	15 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	5000 psi	34.5 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	40 %	40 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	231000 psi	1590 MPa	
Tangent : 73°F (23°C)	252000 psi	1740 MPa	
Flexural Strength (73°F (23°C))	6500 psi	44.8 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	0.60 ft·lb/in	32 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	11 ft·lb/in	590 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	10.0 in·lb	1.13 J	ASTM D5420

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	135 °F	57.2 °C	
RTI Elec			UL 746B
0.031 In (0.79 Mm)	149 °F	65.0 °C	
0.06 In (1.6 Mm)	221 °F	105 °C	
0.13 In (3.2 Mm)	230 °F	110 °C	
RTI Imp			UL 746B
0.031 In (0.79 Mm)	149 °F	65.0 °C	
0.06 In (1.6 Mm)	221 °F	105 °C	
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RTI Str			UL 746B
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0.06 In (1.6 Mm)	221 °F	105 °C	
0.13 In (3.2 Mm)	230 °F	110 °C	

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.031 In (0.79 Mm))	V-0	V-0	UL 94

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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.