

Technical Data Sheet

Ferro Pp RPP15GT15UL 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	1.30	1.30 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	9.0 g/10 min	9.0 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))	3.0 %	3.0 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	379000 psi	2610 MPa	
Tangent : 73°F (23°C)	400000 psi	2760 MPa	
Flexural Strength (73°F (23°C))	8000 psi	55.2 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	2.5 ft·lb/in	130 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	9.0 ft·lb/in	480 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	17.0 in·lb	1.92 J	ASTM D5420

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	245 °F	118 °C	
264 Psi (1.8 Mpa), Unannealed	145 °F	62.8 °C	
RTI Elec			UL 746B
0.06 In (1.6 Mm)	221 °F	105 °C	
0.13 In (3.2 Mm)	230 °F	110 °C	
RTI Imp			UL 746B
0.06 In (1.6 Mm)	221 °F	105 °C	
0.13 In (3.2 Mm)	230 °F	110 °C	
RTI Str			UL 746B
0.06 In (1.6 Mm)	221 °F	105 °C	
0.13 In (3.2 Mm)	230 °F	110 °C	

Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Arc Resistance	116 sec	116 sec	ASTM D495
Comparative Tracking Index (CTI)	600 V	600 V	UL 746A
High Voltage Arc Tracking Rate (HVTR)	0.220 in/min	5.59 mm/min	UL 746A
Hot-wire Ignition (HWI)	55 sec	55 sec	UL 746A

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.06 In (1.6 Mm))	V-0	V-0	UL 94

Additional Information

The value listed as Comparative Tracking Index was tested in accordance with ASTM D3638.

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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.