

Technical Data Sheet

**Polyflam Ferro PP NPP00GT16UL NATURAL**

Polypropylene
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active	
Availability	• Latin America	• North America
Features	• Flame Retardant	
Appearance	• Natural Color	
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.03	1.03 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))	4000 psi	27.6 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	65 %	65 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	161000 psi	1110 MPa	
Tangent : 73°F (23°C)	168000 psi	1160 MPa	
Flexural Strength (73°F (23°C))	5200 psi	35.9 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.0 ft-lb/in	53 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))	115 in-lb	13.0 J	ASTM D5420
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	180 °F	82.2 °C	
264 psi (1.8 MPa), Unannealed	122 °F	50.0 °C	
RTI Elec (0.06 in (1.6 mm))	230 °F	110 °C	UL 746B
RTI Imp (0.06 in (1.6 mm))	230 °F	110 °C	UL 746B
RTI Str (0.06 in (1.6 mm))	230 °F	110 °C	UL 746B
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Arc Resistance	131 sec	131 sec	ASTM D495
Comparative Tracking Index (CTI)	600 V	600 V	UL 746A
High Voltage Arc Tracking Rate (HVTR)	0.00 in/min	0.00 mm/min	UL 746A
Hot-wire Ignition (HWI)	54 sec	54 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	350 to 440 °F	177 to 227 °C
Mold Temperature	86 to 140 °F	30 to 60 °C

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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