

Technical Data Sheet

**Polyflam Ferro PP NPP00GT03BK**

Polypropylene
LyondellBasell Industries
Engineering Plastics

General

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.960	0.958 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10 g/10 min	10 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	4100 psi	28.3 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	50 %	50 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	168000 psi	1160 MPa	
Tangent : 73°F (23°C)	180000 psi	1240 MPa	
Flexural Strength (73°F (23°C))	5400 psi	37.2 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))	18 ft·lb/in	960 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	150 in·lb	16.9 J	ASTM D5420
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	190 °F	87.8 °C	
264 psi (1.8 MPa), Unannealed	125 °F	51.7 °C	
RTI Elec (0.13 in (3.2 mm))	149 °F	65.0 °C	UL 746B
RTI Imp (0.13 in (3.2 mm))	149 °F	65.0 °C	UL 746B
RTI Str (0.13 in (3.2 mm))	149 °F	65.0 °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 (0.25 in (6.4 mm))	V-2	V-2	UL 94

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	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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