

Technical Data Sheet



Polyflam Ferro PP NPP00GT02WH

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	0.980	0.978 g/cm³	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))	4200 psi	29.0 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	50 %	50 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	173000 psi	1190 MPa	
Tangent : 73°F (23°C)	183000 psi	1260 MPa	
Flexural Strength (73°F (23°C))	5300 psi	36.5 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.3 ft-lb/in	69 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	25 ft-lb/in	1300 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	240 in-lb	27.1 J	ASTM D5420
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	210 °F	98.9 °C	
264 psi (1.8 MPa), Unannealed	135 °F	57.2 °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	127 sec	127 sec	ASTM D495
Comparative Tracking Index (CTI)	580 V	580 V	UL 746A
High Voltage Arc Tracking Rate (HVTR)	0.00 in/min	0.00 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
0.13 in (3.2 mm)	V-2	V-2	
0.25 in (6.4 mm)	V-0	V-0	

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
Rear Temperature	350 to 400 °F	177 to 204 °C
Middle Temperature	350 to 420 °F	177 to 216 °C
Front Temperature	350 to 420 °F	177 to 216 °C
Nozzle Temperature	350 to 440 °F	177 to 227 °C
Processing (Melt) Temp	350 to 440 °F	177 to 227 °C
Mold Temperature	86 to 140 °F	30 to 60 °C
Injection Rate	Slow-Moderate	Slow-Moderate
Back Pressure	< 100 psi	< 0.689 MPa
Screw Speed	20 to 60 rpm	20 to 60 rpm

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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