

## Technical Data Sheet



# Polyflam Ferro PP NPP00GT18UL 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                | 1.04                    | 1.04 g/cm <sup>3</sup> | 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                 |             |
| 0.13 in (3.2 mm)                          | 230 °F                  | 110 °C                 |             |
| RTI Str                                   |                         |                        | 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                 |             |
| 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 | 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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