

Technical Data Sheet

**Ferro Pp TPO20AT19GY**

Polypropylene
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active	
Availability	• Latin America	• North America
Filler / Reinforcement	• Mineral, 20% Filler by Weight	
Additive	• Impact Modifier	
Features	• Impact Modified	
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)	10 g/10 min	10 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	2900 psi	20.0 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	50 %	50 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	200000 psi	1380 MPa	
Tangent : 73°F (23°C)	240000 psi	1650 MPa	
Flexural Strength (Yield, 73°F (23°C))	4300 psi	29.6 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	34 ft·lb/in	1800 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	18 ft·lb/in	960 J/m	ASTM D4812
Gardner Impact	160 in·lb	18.1 J	ASTM D5420
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	220 °F	104 °C	
264 psi (1.8 MPa), Unannealed	130 °F	54.4 °C	

Additional Information

Filler Content, ASTM D2584: 20%

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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.

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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