

Technical Data Sheet

# Ferro Pp TPP40AF19HB

Polypropylene Homopolymer  
LyondellBasell Industries  
Engineering Plastics

General	
Filler / Reinforcement	• Talc, 40% Filler by Weight
Additive	• Heat Stabilizer
Features	• Heat Stabilized • Homopolymer
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.26	1.26 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	4.0 g/10 min	4.0 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	4600 psi	31.7 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	6.0 %	6.0 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	520000 psi	3590 MPa	
Tangent : 73°F (23°C)	615000 psi	4240 MPa	
Flexural Strength (Yield, 73°F (23°C))	7900 psi	54.5 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	0.40 ft·lb/in	21 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	4.5 ft·lb/in	240 J/m	ASTM D4812
Gardner Impact	5.00 in·lb	0.565 J	ASTM D5420

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	275 °F	135 °C	
264 Psi (1.8 Mpa), Unannealed	185 °F	85.0 °C	

Additional Information
Filler Content, ASTM D2584: 40%

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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.