

Technical Data Sheet

# Ferro Pp TPP20AF41BK

Polypropylene Homopolymer  
LyondellBasell Industries  
Engineering Plastics

General	
Filler / Reinforcement	• Talc, 20% Filler by Weight
Additive	• Heat Stabilizer
Features	• Heat Stabilized • Homopolymer
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.06	1.06 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	5.5 g/10 min	5.5 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	4700 psi	32.4 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	15 %	15 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	313000 psi	2160 MPa	
Tangent : 73°F (23°C)	360000 psi	2480 MPa	
Flexural Strength (73°F (23°C))	7400 psi	51.0 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))	7.1 ft·lb/in	380 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	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	250 °F	121 °C	
264 Psi (1.8 Mpa), Unannealed	155 °F	68.3 °C	

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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.