

Technical Data Sheet

# Ferro Pp TPP20AN17BK

Polypropylene  
LyondellBasell Industries  
Engineering Plastics

General	
Filler / Reinforcement	• Talc, 20% Filler by Weight
Additive	• Impact Modifier
Features	• General Purpose • Good Impact Resistance • Good Dimensional Stability • Impact Modified
Uses	• Automotive Applications
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)	9.0 g/10 min	9.0 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	4500 psi	31.0 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	15 %	15 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	310000 psi	2140 MPa	
Tangent : 73°F (23°C)	345000 psi	2380 MPa	
Flexural Strength (73°F (23°C))	7200 psi	49.6 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	0.70 ft·lb/in	37 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	9.4 ft·lb/in	500 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	255 °F	124 °C	
264 Psi (1.8 Mpa), Unannealed	160 °F	71.1 °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
Rear Temperature	400 to 410 °F	204 to 210 °C
Middle Temperature	410 to 415 °F	210 to 213 °C
Front Temperature	415 to 420 °F	213 to 216 °C
Nozzle Temperature	420 to 425 °F	216 to 218 °C
Processing (Melt) Temp	428 to 500 °F	220 to 260 °C
Mold Temperature	86 to 140 °F	30 to 60 °C
Back Pressure	20.0 to 50.0 psi	0.138 to 0.345 MPa
Screw Speed	100 to 150 rpm	100 to 150 rpm
Clamp Tonnage	2.0 to 3.0 tons/in <sup>2</sup>	2.8 to 4.1 kN/cm <sup>2</sup>
Screw L/D Ratio	20.0:1.0	20.0:1.0
Screw Compression Ratio	2.0:1.0	2.0:1.0

**Notes**

These are typical property values not to be construed as specification limits.