

Technical Data Sheet

Ferro Pp TPP40AF21HB WHITE

Polypropylene Homopolymer

LyondellBasell Industries

Engineering Plastics

General	
Filler / Reinforcement	• Talc, 46% Filler by Weight
Features	• Homopolymer
Appearance	• White
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.30	1.30 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	8.5 g/10 min	8.5 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))	5.0 %	5.0 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	409000 psi	2820 MPa	
Tangent : 73°F (23°C)	643000 psi	4430 MPa	
Flexural Strength (73°F (23°C))	7300 psi	50.3 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))	4.0 ft·lb/in	210 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	8.00 in·lb	0.904 J	ASTM D5420

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	280 °F	138 °C	
264 Psi (1.8 Mpa), Unannealed	190 °F	87.8 °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.