

Ferro Pp WPP10SD04BK

Polypropylene Homopolymer

LyondellBasell Industries

Engineering Plastics

General			
Filler / Reinforcement	• Wollastonite (CaSiO3), 10% Filler by Weight		
Additive	• Heat Stabilizer		
Recycled Content	• Yes, 25%		
Features	• Heat Stabilized	• Homopolymer	
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.980 g/cm ³	0.980 g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	5.3 g/10 min	5.3 g/10 min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield, 73°F (23°C))	4530 psi	31.2 MPa	ISO 527-2
Flexural Modulus - Tangent	290 psi	2.00 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact Strength			ISO 180/1A
-40°F (-40°C)	1.3 ft·lb/in ²	2.7 kJ/m ²	
73°F (23°C)	1.9 ft·lb/in ²	3.9 kJ/m ²	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	234 °F	112 °C	ISO 75-2/B
264 Psi (1.8 Mpa), Unannealed	147 °F	64.0 °C	ISO 75-2/A

Additional Information

Mineral Content, ISO 3451/1: 11%

Tensile Change, ISO 188, 1000 hr, 140°C: +12%

Izod Change, ISO 188, 1000 hr, 140°C: +4%

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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.