

Technical Data Sheet

**Ferro Pp WPP10SD04BK**

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

General			
Material Status	• Commercial: Active		
Availability	• Latin America	• North America	
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/cm³	0.980 g/cm³	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/in²	2.7 kJ/m²	
73°F (23°C)	1.9 ft·lb/in²	3.9 kJ/m²	
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.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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