

Technical Data Sheet

Ferro Pp WPP10SD02NA

Polypropylene
LyondellBasell Industries
Engineering Plastics

General	
Filler / Reinforcement	• Wollastonite (CaSiO ₃), 10% Filler by Weight
Automotive Specifications	• FORD WSH-M4D832-A
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.990	0.988 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	4900 psi	33.8 MPa	ASTM D638
Tensile Elongation (Break)	60 %	60 %	ASTM D638
Flexural Modulus	250000 psi	1720 MPa	ASTM D790
Flexural Strength (Yield)	6500 psi	44.8 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	0.75 ft·lb/in	40 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	12 ft·lb/in	640 J/m	ASTM D4812
Gardner Impact	5.00 in·lb	0.565 J	ASTM D3029

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Durometer Hardness (Shore D)	72	72	ASTM D2240

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	150 °F	65.6 °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.