

Technical Data Sheet

# Ferro Pp NPP00GC01BK

Polypropylene  
LyondellBasell Industries  
Engineering Plastics

General	
Automotive Specifications	• FORD WSS-M4D293-B3
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.920	0.918 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	7.0 g/10 min	7.0 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	5000 psi	34.5 MPa	ASTM D638
Tensile Elongation (Break)	40 %	40 %	ASTM D638
Flexural Modulus	200000 psi	1380 MPa	ASTM D790
Flexural Strength (Yield)	6300 psi	43.4 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	0.80 ft·lb/in	43 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	18 ft·lb/in	960 J/m	ASTM D4812
Gardner Impact	25.0 in·lb	2.82 J	ASTM D3029

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-scale)	100	100	ASTM D785
Durometer Hardness (Shore D)	66	66	ASTM D2240

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	220 °F	104 °C	
264 Psi (1.8 Mpa), Unannealed	140 °F	60.0 °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.