

Technical Data Sheet
Ferro PP NPP00GX08BK
Polyolefin
Engineering Plastics



General

Forms • Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.900	0.898 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.8 g/10 min	7.8 g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	0.012 in/in	1.2 %	
Across Flow	0.013 in/in	1.3 %	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	3100 psi	21.4 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	300 %	300 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	112000 psi	772 MPa	
Tangent : 73°F (23°C)	118000 psi	814 MPa	
Flexural Strength (Yield, 73°F (23°C))	3500 psi	24.1 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	18 ft·lb/in	960 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	6.8 ft·lb/in	360 J/m	ASTM D256
Instrumented Dart Impact (-22°F (-30°C))	254 in·lb	28.7 J	ASTM D3763
Gardner Impact	288 in·lb	32.5 J	ASTM D5420
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	77	77	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	165 °F	73.9 °C	
264 psi (1.8 MPa), Unannealed	115 °F	46.1 °C	
CLTE			ASTM E831
Flow	5.9E-5 in/in/°F	1.1E-4 cm/cm/°C	
Transverse	7.9E-5 in/in/°F	1.4E-4 cm/cm/°C	

Additional Information

Filler Content, ASTM D2584: 0.6%
Shear Modulus, ASTM D4065, 23°C: 181 MPa
Flammability, ISO 3795: 15 mm/min

Notes

These are typical property values not to be construed as specification limits.

