

Technical Data Sheet

Ferrex GPP20YJ13NA

Polypropylene Homopolymer
 LyondellBasell Industries
 Engineering Plastics

General	
Filler / Reinforcement	• Calcium Carbonate, 20% Filler by Weight
Features	• High Gloss • Homopolymer
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.05	1.05 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	20 g/10 min	20 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	4300 psi	29.6 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	20 %	20 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	275000 psi	1900 MPa	
Tangent : 73°F (23°C)	305000 psi	2100 MPa	
Flexural Strength (73°F (23°C))	6700 psi	46.2 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))	11 ft·lb/in	570 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	50.0 in·lb	5.65 J	ASTM D5420

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	235 °F	113 °C	
264 Psi (1.8 Mpa), Unannealed	145 °F	62.8 °C	

Notes

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