

Technical Data Sheet

Ferrex GPP05CS77NA

Polypropylene
LyondellBasell Industries
Engineering Plastics

General	
Filler / Reinforcement	• Calcium Carbonate, 20% Filler by Weight
Additive	• Impact Modifier
Features	• Impact Modified
Forms	• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.940	0.938 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	11 g/10 min	11 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	3900 psi	26.9 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	170 %	170 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	169000 psi	1170 MPa	
Tangent : 73°F (23°C)	190000 psi	1310 MPa	
Flexural Strength (Yield, 73°F (23°C))	5100 psi	35.2 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	2.3 ft·lb/in	120 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	No Break	No Break	ASTM D4812
Gardner Impact	285 in·lb	32.2 J	ASTM D5420

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	200 °F	93.3 °C	
264 Psi (1.8 Mpa), Unannealed	125 °F	51.7 °C	

Additional Information
Filler Content, ASTM D2584: 5.5%

Notes

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