

Technical Data Sheet

**Ferrex GPP05CS77NA**

Polypropylene
LyondellBasell Industries
Engineering Plastics

General			
Material Status	• Commercial: Active		
Availability	• Latin America • North America		
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/cm³	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.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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