

Technical Data Sheet

**Ferrex GPP20CS89HB**

Polypropylene Copolymer
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active
Availability	• Latin America • North America
Filler / Reinforcement	• Calcium Carbonate, 20% Filler by Weight
Features	• Copolymer
Appearance	• Green
Forms	• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.06	1.06 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0 g/10 min	6.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	2400 psi	16.5 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	200 %	200 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	123000 psi	848 MPa	
Tangent : 73°F (23°C)	134000 psi	924 MPa	
Flexural Strength (Yield, 73°F (23°C))	2900 psi	20.0 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	12 ft-lb/in	640 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	No Break	No Break	ASTM D4812
Gardner Impact	270 in-lb	30.5 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: 20%

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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