

Technical Data Sheet**Ferrex GPP20CS70BK**

Polypropylene
LyondellBasell Industries
Engineering Plastics

Product Description

25% P.C.R.
Meets/exceeds Ford Engineering Material Specification WSS-M4D959-A. Primary use is for fuel vapor storage brackets.

General

Material Status	• Commercial: Active	
Availability	• Latin America	• North America
Filler / Reinforcement	• Calcium Carbonate, 20% Filler by Weight	
Additive	• Heat Stabilizer	• Impact Modifier
Features	• Heat Stabilized	• Impact Modified
Automotive Specifications	• FORD WSS-M4D959-A	
Appearance	• Black	
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.05 g/cm ³	1.05 g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.8 g/10 min	9.8 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield, 73°F (23°C))	3160 psi	21.8 MPa	ISO 527-2
Flexural Modulus	203000 psi	1400 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact Strength			ISO 180
-40°F (-40°C)	1.6 ft·lb/in ²	3.3 kJ/m ²	
73°F (23°C)	4.6 ft·lb/in ²	9.7 kJ/m ²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	221 °F	105 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	149 °F	65.0 °C	ISO 75-2/A

Additional Information

Tensile/Izod Change, ISO 188, 1000 hr, 120°C: +6/+4 %

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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