

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

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.