

Technical Data Sheet

Gapex FPP40GR18NA

Polypropylene Homopolymer
 LyondellBasell Industries
 Engineering Plastics

General	
Filler / Reinforcement	• Glass\Mineral, 40% Filler by Weight
Features	• Chemically Coupled
Forms	• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.23	1.23 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	7.5 g/10 min	7.5 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	9000 psi	62.1 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	3.0 %	3.0 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	685000 psi	4720 MPa	
Tangent : 73°F (23°C)	744000 psi	5130 MPa	
Flexural Strength (73°F (23°C))	14100 psi	97.2 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.1 ft·lb/in	59 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	5.0 ft·lb/in	270 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	2.00 in·lb	0.226 J	ASTM D5420

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	315 °F	157 °C	
264 Psi (1.8 Mpa), Unannealed	290 °F	143 °C	

Additional Information
 Testing and measurements were performed at 73 +/-3°F and 50 +/-5% relative humidity unless otherwise noted.

Notes

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