

Technical Data Sheet
GAPEX[®] FPP40GQ21WH
 Polypropylene
 Engineering Plastics



General			
Filler / Reinforcement	• Glass\Mineral, 42% Filler by Weight		
Additive	• Heat Stabilizer	• Impact Modifier	
Features	• Chemically Coupled	• Heat Stabilized	• Impact Modified
Forms	• Pellets		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.28	1.28 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.5 g/10 min	8.5 g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	3.0E-3 in/in	0.30 %	
Across Flow	0.010 in/in	1.0 %	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	6100 psi	42.1 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	4.0 %	4.0 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	457000 psi	3150 MPa	
Tangent : 73°F (23°C)	495000 psi	3410 MPa	
Flexural Strength (73°F (23°C))	9000 psi	62.1 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.8 ft·lb/in	96 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	7.1 ft·lb/in	380 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	7.60 in·lb	0.859 J	ASTM D5420

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	309 °F	154 °C	
264 psi (1.8 MPa), Unannealed	268 °F	131 °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.