

Technical Data Sheet

Gapex APP40GR51AL

Polypropylene Homopolymer

LyondellBasell Industries

Engineering Plastics

General			
Filler / Reinforcement	• Glass\Mineral, 42% Filler by Weight		
Features	• Chemically Coupled		
Forms	• Pellets		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.26	1.26 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	3.5 g/10 min	3.5 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	7400 psi	51.0 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)	697000 psi	4810 MPa	
Tangent : 73°F (23°C)	778000 psi	5360 MPa	
Flexural Strength (73°F (23°C))	12000 psi	82.7 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	0.90 ft·lb/in	48 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	4.5 ft·lb/in	240 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	2.20 in·lb	0.249 J	ASTM D5420

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	312 °F	156 °C	
264 Psi (1.8 Mpa), Unannealed	285 °F	141 °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.