

Technical Data Sheet

Gapex APP40GR54HB BLUE

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

General	
Filler / Reinforcement	• Glass\Mineral, 41% Filler by Weight
Features	• Chemically Coupled
Appearance	• Blue
Forms	• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.24	1.24 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	4.0 g/10 min	4.0 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	6400 psi	44.1 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)	602000 psi	4150 MPa	
Tangent : 73°F (23°C)	622000 psi	4290 MPa	
Flexural Strength (73°F (23°C))	11100 psi	76.5 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.3 ft·lb/in	69 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	6.0 ft·lb/in	320 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	5.00 in·lb	0.565 J	ASTM D5420

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	314 °F	157 °C	
264 Psi (1.8 Mpa), Unannealed	278 °F	137 °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.