

Technical Data Sheet

Gapex APP40GR53HB TAN

Polypropylene Homopolymer
 LyondellBasell Industries
 Engineering Plastics

General	
Filler / Reinforcement	• Glass\Mineral, 40% Filler by Weight
Features	• Chemically Coupled
Appearance	• Tan
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))	6300 psi	43.4 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)	601000 psi	4140 MPa	
Tangent : 73°F (23°C)	619000 psi	4270 MPa	
Flexural Strength (73°F (23°C))	10800 psi	74.5 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.2 ft·lb/in	64 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	5.8 ft·lb/in	310 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	315 °F	157 °C	
264 Psi (1.8 Mpa), Unannealed	280 °F	138 °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.