

Technical Data Sheet

# Gapex APP40GR58NA

Polypropylene Homopolymer  
LyondellBasell Industries  
Engineering Plastics

General			
Filler / Reinforcement	• Glass\Mineral, 40% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Chemically Coupled	• Heat Stabilized	• Homopolymer
Forms	• Pellets		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.22	1.22 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	5.0 g/10 min	5.0 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	8200 psi	56.5 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)	666000 psi	4590 MPa	
Tangent : 73°F (23°C)	710000 psi	4900 MPa	
Flexural Strength (Yield, 73°F (23°C))	13500 psi	93.1 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.0 ft·lb/in	53 J/m	ASTM D256
Unnotched Izod Impact (73°F (23°C))	6.0 ft·lb/in	320 J/m	ASTM D4812
Gardner Impact	3.00 in·lb	0.339 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	285 °F	141 °C	

Additional Information			
Filler Content, ASTM D2584: 40%			

**Notes**

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