

Technical Data Sheet

# Gapex HPP40GR22RD

Polypropylene Homopolymer  
LyondellBasell Industries  
Engineering Plastics

**General**

Filler / Reinforcement	• Glass\Mica, 40% Filler by Weight
Features	• Chemically Coupled • Homopolymer

**Physical**

	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.25	1.25 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	7.5 g/10 min	7.5 g/10 min	ASTM D1238

**Mechanical**

	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	9200 psi	63.4 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	5.0 %	5.0 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	923000 psi	6360 MPa	
Tangent : 73°F (23°C)	941000 psi	6490 MPa	
Flexural Strength (73°F (23°C))	14200 psi	97.9 MPa	ASTM D790

**Impact**

	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	0.80 ft-lb/in	43 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))	3.50 in-lb	0.395 J	ASTM D5420

**Thermal**

	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	320 °F	160 °C	
264 Psi (1.8 Mpa), Unannealed	305 °F	152 °C	

**Additional Information**

	Nominal Value (English)	Nominal Value (SI)	Test Method
Filler Content	40 %	40 %	ASTM D2584

**Notes**

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