

Technical Data Sheet



Gapex APP40GR22HB-BK

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active
Availability	• Latin America • North America
Filler / Reinforcement	• Glass Fiber/Mineral, 40% Filler by Weight
Features	• Chemically Coupled
Appearance	• Black
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)	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))	7500 psi	51.7 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	3.5 %	3.5 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	655000 psi	4520 MPa	
Tangent : 73°F (23°C)	770000 psi	5310 MPa	
Flexural Strength (73°F (23°C))	12600 psi	86.9 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))	5.5 ft-lb/in	290 J/m	ASTM D4812
Gardner Impact (73°F (23°C))	2.50 in-lb	0.282 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

The value listed as Unnotched Izod Impact, ASTM D256, was tested in accordance with ASTM D4812.
Filler Content, ASTM D2584: 40.5%
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.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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