

Technical Data Sheet



Gapex HPP40GR11BK BLACK

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
Automotive Specifications	• ASTM D4000 PP0110 R40 A35240 AA002
Appearance	• Black
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)	6.8 g/10 min	6.8 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (73°F (23°C))	10300 psi	71.0 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	3.0 %	3.0 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°F (23°C)	975000 psi	6720 MPa	
Tangent : 73°F (23°C)	998000 psi	6880 MPa	
Flexural Strength (73°F (23°C))	16000 psi	110 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))	7.0 ft-lb/in	370 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	310 °F	154 °C	
264 psi (1.8 MPa), Unannealed	285 °F	141 °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.

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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