

Technical Data Sheet

**Gapex Ht RNP23MU01BK**

Polyamide + PP
LyondellBasell Industries
Engineering Plastics

General	
Material Status	• Commercial: Active
Availability	• Latin America • North America
Filler / Reinforcement	• Glass Fabric, 24% Filler by Weight
Features	• High Heat Resistance
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.21 g/cm ³	1.21 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	23 g/10 min	23 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield, 73°F (23°C))	16500 psi	114 MPa	ISO 527-2
Tensile Strain (Break, 73°F (23°C))	5.0 %	5.0 %	ISO 527-2
Flexural Modulus (73°F (23°C))	741000 psi	5110 MPa	ISO 178
Flexural Stress (73°F (23°C))	22500 psi	155 MPa	ISO 178
Shear Modulus	143000 psi	987 MPa	ASTM D732
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact Strength			ISO 180
-40°F (-40°C)	3.9 ft·lb/in ²	8.1 kJ/m ²	
73°F (23°C)	4.6 ft·lb/in ²	9.6 kJ/m ²	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	493 °F	256 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	457 °F	236 °C	ISO 75-2/A

Additional Information
The values shown for Molding Shrinkage were tested in accordance with ISO 2577.
The value shown for Shear Modulus was tested in accordance with ASTM D4065.
Flammability, ISO 3795: 31 mm/min

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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