

Technical Data Sheet

Gapex Ht RNP23LB03BK

Polyamide + PP
LyondellBasell Industries
Engineering Plastics

| General | |
|------------------------|-------------------------------------|
| Filler / Reinforcement | • Glass Fiber, 23% Filler by Weight |
| Features | • High Heat Resistance |
| Forms | • Pellets |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--|-------------------------|------------------------|-------------|
| Density / Specific Gravity | 1.22 | 1.22 g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (275°C/5.0 Kg) | 43 g/10 min | 43 g/10 min | ASTM D1238 |

| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-------------------------|--------------------|-------------|
| Tensile Strength (Yield, 73°F (23°C)) | 17000 psi | 117 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) | 740000 psi | 5100 MPa | |
| Tangent : 73°F (23°C) | 746000 psi | 5140 MPa | |
| Flexural Strength (Yield, 73°F (23°C)) | 2300 psi | 15.9 MPa | ASTM D790 |

| Impact | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-------------------------------------|-------------------------|--------------------|-------------|
| Notched Izod Impact (73°F (23°C)) | 2.1 ft·lb/in | 110 J/m | ASTM D256 |
| Unnotched Izod Impact (73°F (23°C)) | 20 ft·lb/in | 1100 J/m | ASTM D4812 |
| Gardner Impact | 6.00 in·lb | 0.678 J | ASTM D5420 |

| Thermal | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--|-------------------------|--------------------|-------------|
| Deflection Temperature Under Load 264 Psi (1.8 Mpa), Unannealed | 375 °F | 191 °C | ASTM D648 |

| Additional Information |
|---------------------------------|
| Filler Content, ASTM D2584: 23% |

Notes

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