

## Technical Data Sheet



# Gapex APP40GR53HB TAN

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                                                                                                  | • Tan                                       |                    |             |
| Forms                                                                                                       | • Pellets                                   |                    |             |
| Physical                                                                                                    | Nominal Value (English)                     | Nominal Value (SI) | Test Method |
| Density / Specific Gravity                                                                                  | 1.24                                        | 1.24 g/cm³         | 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))                                                                              | 6300 psi                                    | 43.4 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)                                                                                     | 601000 psi                                  | 4140 MPa           |             |
| Tangent : 73°F (23°C)                                                                                       | 619000 psi                                  | 4270 MPa           |             |
| Flexural Strength (73°F (23°C))                                                                             | 10800 psi                                   | 74.5 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))                                                                         | 5.8 ft-lb/in                                | 310 J/m            | ASTM D4812  |
| Gardner Impact (73°F (23°C))                                                                                | 5.00 in-lb                                  | 0.565 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                                                                               | 280 °F                                      | 138 °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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