

# Gapex RPP45EA93GY

Polypropylene  
LyondellBasell Industries  
Engineering Plastics

| General                                   |                                     |                        |             |
|-------------------------------------------|-------------------------------------|------------------------|-------------|
| Filler / Reinforcement                    | • Glass Fiber, 45% Filler by Weight |                        |             |
| Forms                                     | • Pellets                           |                        |             |
| Physical                                  | Nominal Value (English)             | Nominal Value (SI)     | Test Method |
| Density / Specific Gravity                | 1.26                                | 1.26 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg) | 5.0 g/10 min                        | 5.0 g/10 min           | ASTM D1238  |
| Mechanical                                | Nominal Value (English)             | Nominal Value (SI)     | Test Method |
| Tensile Strength (Yield)                  | 12300 psi                           | 84.8 MPa               | ASTM D638   |
| Tensile Elongation (Break)                | 4.0 %                               | 4.0 %                  | ASTM D638   |
| Flexural Modulus                          | 1.20E+6 psi                         | 8270 MPa               | ASTM D790   |
| Flexural Strength (Yield)                 | 21000 psi                           | 145 MPa                | ASTM D790   |
| Impact                                    | Nominal Value (English)             | Nominal Value (SI)     | Test Method |
| Notched Izod Impact (73°F (23°C))         | 1.5 ft·lb/in                        | 81 J/m                 | ASTM D256   |
| Unnotched Izod Impact (73°F (23°C))       | 8.3 ft·lb/in                        | 440 J/m                | ASTM D4812  |
| Hardness                                  | Nominal Value (English)             | Nominal Value (SI)     | Test Method |
| Rockwell Hardness (R-scale)               | 82                                  | 82                     | ASTM D785   |
| Thermal                                   | Nominal Value (English)             | Nominal Value (SI)     | Test Method |
| Deflection Temperature Under Load         |                                     |                        | ASTM D648   |
| 66 Psi (0.45 Mpa), Unannealed             | 320 °F                              | 160 °C                 |             |
| 264 Psi (1.8 Mpa), Unannealed             | 305 °F                              | 152 °C                 |             |

## Notes

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

