

# Gapex RPP10EU56BK

Polypropylene  
LyondellBasell Industries  
Engineering Plastics

| General                |                                        |  |  |
|------------------------|----------------------------------------|--|--|
| Filler / Reinforcement | • Glass Fiber, 10% Filler by Weight    |  |  |
| Additive               | • Impact Modifier                      |  |  |
| Features               | • Chemically Coupled • Impact Modified |  |  |
| Forms                  | • Pellets                              |  |  |

| Physical                                  | Nominal Value (English) | Nominal Value (SI)      | Test Method |
|-------------------------------------------|-------------------------|-------------------------|-------------|
| Density / Specific Gravity                | 0.970                   | 0.968 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg) | 6.5 g/10 min            | 6.5 g/10 min            | ASTM D1238  |
| Mechanical                                | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Tensile Strength (73°F (23°C))            | 6200 psi                | 42.7 MPa                | ASTM D638   |
| Tensile Elongation (Break, 73°F (23°C))   | 12 %                    | 12 %                    | ASTM D638   |
| Flexural Modulus                          |                         |                         | ASTM D790   |
| 1% Secant : 73°F (23°C)                   | 312000 psi              | 2150 MPa                |             |
| Tangent : 73°F (23°C)                     | 325000 psi              | 2240 MPa                |             |
| Flexural Strength (73°F (23°C))           | 9500 psi                | 65.5 MPa                | ASTM D790   |
| Impact                                    | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Notched Izod Impact (73°F (23°C))         | 1.6 ft·lb/in            | 85 J/m                  | ASTM D256   |
| Unnotched Izod Impact (73°F (23°C))       | 8.5 ft·lb/in            | 450 J/m                 | ASTM D4812  |
| Gardner Impact (73°F (23°C))              | 8.00 in·lb              | 0.904 J                 | ASTM D5420  |
| Thermal                                   | Nominal Value (English) | Nominal Value (SI)      | Test Method |
| Deflection Temperature Under Load         |                         |                         | ASTM D648   |
| 66 Psi (0.45 Mpa), Unannealed             | 305 °F                  | 152 °C                  |             |
| 264 Psi (1.8 Mpa), Unannealed             | 220 °F                  | 104 °C                  |             |

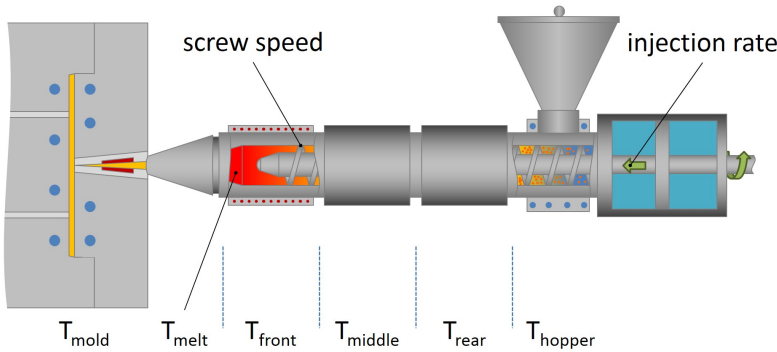
## Additional Information

Testing and measurements were performed at 73 +/-3°F and 50 +/-5% relative humidity unless otherwise noted.



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| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 160 to 180 °F           | 71 to 82 °C        |
| Drying Time            | 2.0 to 4.0 hr           | 2.0 to 4.0 hr      |
| Rear Temperature       | 430 to 460 °F           | 221 to 238 °C      |
| Middle Temperature     | 440 to 470 °F           | 227 to 243 °C      |
| Front Temperature      | 450 to 500 °F           | 232 to 260 °C      |
| Nozzle Temperature     | 450 to 500 °F           | 232 to 260 °C      |
| Processing (Melt) Temp | 430 to 460 °F           | 221 to 238 °C      |
| Mold Temperature       | 100 to 150 °F           | 38 to 66 °C        |
| Injection Rate         | Slow-Moderate           | Slow-Moderate      |
| Back Pressure          | 20.0 to 50.0 psi        | 0.138 to 0.345 MPa |
| Cushion                | 0.200 to 0.500 in       | 5.08 to 12.7 mm    |

Notes

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

