

## Qr Resin QR-1000-GF40

Polycarbonate  
LyondellBasell Industries  
Engineering Plastics

### Product Description

Available with UV (V) or Release (R).

### General

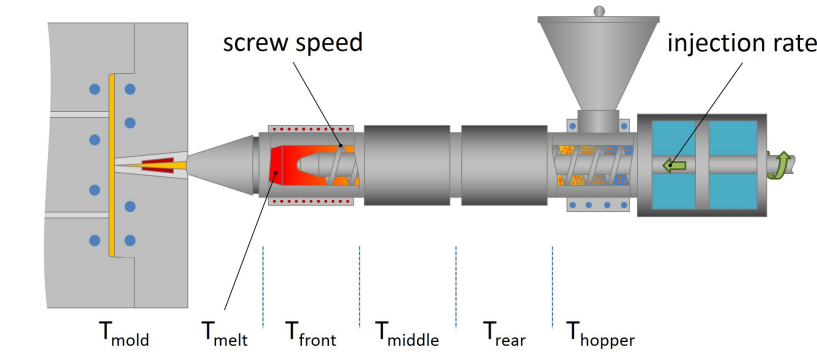
|                        |                                     |
|------------------------|-------------------------------------|
| Filler / Reinforcement | • Glass Fiber, 40% Filler by Weight |
| Features               | • Good Toughness                    |
| Appearance             | • Colors Available • Natural Color  |
| Forms                  | • Pellets                           |
| Processing Method      | • Injection Molding                 |

| Physical                                 | Nominal Value (English) | Nominal Value (SI)     | Test Method |
|------------------------------------------|-------------------------|------------------------|-------------|
| Density / Specific Gravity               | 1.52                    | 1.52 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 Kg) | 10 to 20 g/10 min       | 10 to 20 g/10 min      | ASTM D1238  |
| Mechanical                               | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Tensile Strength (Yield)                 | 23000 psi               | 159 MPa                | ASTM D638   |
| Flexural Modulus                         | 1.40E+6 psi             | 9650 MPa               | ASTM D790   |
| Flexural Strength (Yield)                | 26500 psi               | 183 MPa                | ASTM D790   |
| Impact                                   | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Unnotched Izod Impact (73°F (23°C))      | 22 ft·lb/in             | 1200 J/m               | ASTM D4812  |
| Thermal                                  | Nominal Value (English) | Nominal Value (SI)     | Test Method |
| Deflection Temperature Under Load        |                         |                        | ASTM D648   |
| 66 Psi (0.45 Mpa), Unannealed            | 310 °F                  | 154 °C                 |             |
| 264 Psi (1.8 Mpa), Unannealed            | 295 °F                  | 146 °C                 |             |



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| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 250 °F                  | 121 °C             |
| Drying Time            | 3.0 to 6.0 hr           | 3.0 to 6.0 hr      |
| Drying Time, Maximum   | 6.0 hr                  | 6.0 hr             |
| Rear Temperature       | 560 to 600 °F           | 293 to 316 °C      |
| Middle Temperature     | 580 to 620 °F           | 304 to 327 °C      |
| Front Temperature      | 600 to 640 °F           | 316 to 338 °C      |
| Nozzle Temperature     | 590 to 630 °F           | 310 to 332 °C      |
| Processing (Melt) Temp | 600 to 640 °F           | 316 to 338 °C      |
| Mold Temperature       | 180 to 240 °F           | 82 to 116 °C       |

Notes

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

