

Technical Data Sheet

## Qr Resin QR-2000-GF30

Acrylonitrile Butadiene Styrene  
LyondellBasell Industries  
Engineering Plastics

| General                |                                     |        |  |
|------------------------|-------------------------------------|--------|--|
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight |        |  |
| Features               | • High Heat Resistance              |        |  |
| Appearance             | • Colors Available                  | • Grey |  |
| Forms                  | • Pellets                           |        |  |
| Processing Method      | • Injection Molding                 |        |  |

| Physical                                 | Nominal Value (English) | Nominal Value (SI) | Test Method |
|------------------------------------------|-------------------------|--------------------|-------------|
| Density / Specific Gravity               | 1.20                    | 1.20 g/cm³         | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/3.8 Kg) | 3.0 g/10 min            | 3.0 g/10 min       | ASTM D1238  |

| Mechanical                 | Nominal Value (English) | Nominal Value (SI) | Test Method |
|----------------------------|-------------------------|--------------------|-------------|
| Tensile Strength (Break)   | 15000 psi               | 103 MPa            | ASTM D638   |
| Tensile Elongation (Break) | 1.2 %                   | 1.2 %              | ASTM D638   |
| Flexural Modulus           | 1.09E+6 psi             | 7520 MPa           | ASTM D790   |
| Flexural Strength (Break)  | 24000 psi               | 165 MPa            | ASTM D790   |

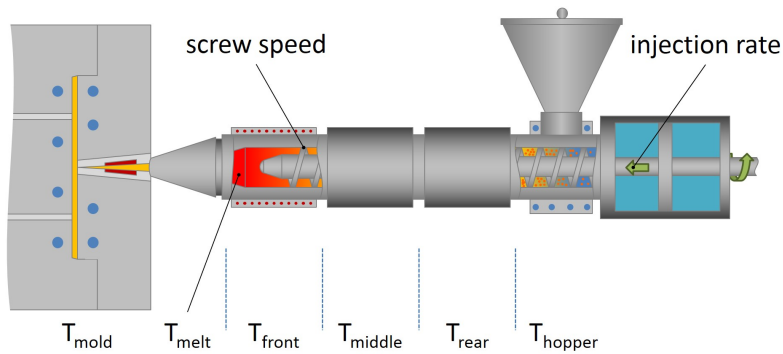
| Impact                            | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-----------------------------------|-------------------------|--------------------|-------------|
| Notched Izod Impact (73°F (23°C)) | 0.80 ft·lb/in           | 43 J/m             | ASTM D256   |

| Thermal                           | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-----------------------------------|-------------------------|--------------------|-------------|
| Deflection Temperature Under Load |                         |                    | ASTM D648   |
| 66 Psi (0.45 Mpa), Unannealed     | 220 °F                  | 104 °C             |             |
| 264 Psi (1.8 Mpa), Unannealed     | 210 °F                  | 98.9 °C            |             |

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| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 200 °F                  | 93 °C              |
| Drying Time            | 2.0 to 4.0 hr           | 2.0 to 4.0 hr      |
| Drying Time, Maximum   | 4.0 hr                  | 4.0 hr             |
| Rear Temperature       | 370 to 410 °F           | 188 to 210 °C      |
| Middle Temperature     | 400 to 440 °F           | 204 to 227 °C      |
| Front Temperature      | 420 to 460 °F           | 216 to 238 °C      |
| Nozzle Temperature     | 420 to 500 °F           | 216 to 260 °C      |
| Processing (Melt) Temp | 420 to 500 °F           | 216 to 260 °C      |
| Mold Temperature       | 120 to 160 °F           | 49 to 71 °C        |

### Notes

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