**Technical Data Sheet**

# *Qr Resin* QR-2000-GF10

Acrylonitrile Butadiene Styrene
LyondellBasell Industries
Engineering Plastics

| General | | | |
|---|---|---|---|
| Filler / Reinforcement | • Glass Fiber, 10% Filler by Weight | | |
| Features | • High Heat Resistance | | |
| Appearance | • Black | • Colors Available | • Natural Color |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.10 | 1.10 g/cm³ | ASTM D792 |
| **Mechanical** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Tensile Strength (Yield) | 7000 psi | 48.3 MPa | ASTM D638 |
| Tensile Elongation (Break) | 3.0 % | 3.0 % | ASTM D638 |
| Flexural Modulus | 450000 psi | 3100 MPa | ASTM D790 |
| Flexural Strength (Break) | 10000 psi | 68.9 MPa | ASTM D790 |
| **Impact** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Notched Izod Impact (73°f (23°c)) | 1.0 ft·lb/in | 53 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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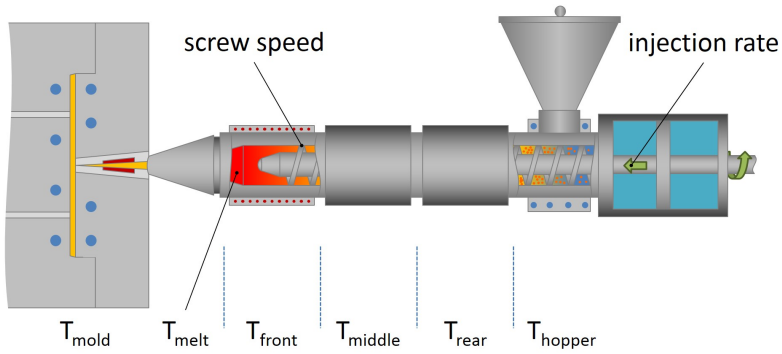


| Injection | Nominal Value (English) | Nominal Value (SI) |
|---|---|---|
| Drying Temperature | 200 °F | 93 °C |
| Drying Time | 2.0 to 4.0 hr | 2.0 to 4.0 hr |
| Drying Time, Maximum | 4.0 hr | 4.0 hr |
| Rear Temperature | 370 to 410 °F | 188 to 210 °C |
| Middle Temperature | 400 to 440 °F | 204 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.