

Technical Data Sheet

Qr Resin QR-1008-FR

Polycarbonate
 LyondellBasell Industries
 Engineering Plastics

Product Description

Available with UV (V) or Release (R).
 Flame Packages Available (0.0625 in min. thickness): 94V-2, 94V-0, 94-5VA

General

| | | |
|-------------------|--------------------------|---------------------|
| Features | • High Impact Resistance | |
| Appearance | • Colors Available | • Natural Color |
| Forms | • Pellets | |
| Processing Method | • Extrusion | • Injection Molding |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|----------|-------------------------|--------------------|-------------|
|----------|-------------------------|--------------------|-------------|

| | | | |
|--|--------------|------------------------|------------|
| Density / Specific Gravity | 1.21 | 1.21 g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 Kg) | 8.0 g/10 min | 8.0 g/10 min | ASTM D1238 |

| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|------------|-------------------------|--------------------|-------------|
|------------|-------------------------|--------------------|-------------|

| | | | |
|---------------------------|------------|----------|-----------|
| Tensile Strength (Yield) | 9000 psi | 62.1 MPa | ASTM D638 |
| Flexural Modulus | 325000 psi | 2240 MPa | ASTM D790 |
| Flexural Strength (Yield) | 13000 psi | 89.6 MPa | ASTM D790 |

| Impact | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--------|-------------------------|--------------------|-------------|
|--------|-------------------------|--------------------|-------------|

| | | | |
|-----------------------------------|-------------|---------|-----------|
| Notched Izod Impact (73°F (23°C)) | 12 ft·lb/in | 640 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 | 280 °F | 138 °C | |
| 264 Psi (1.8 Mpa), Unannealed | 270 °F | 132 °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 | 540 to 580 °F | 282 to 304 °C |
| Middle Temperature | 560 to 600 °F | 293 to 316 °C |
| Front Temperature | 580 to 620 °F | 304 to 327 °C |
| Nozzle Temperature | 570 to 610 °F | 299 to 321 °C |
| Processing (Melt) Temp | 580 to 620 °F | 304 to 327 °C |
| Mold Temperature | 180 to 240 °F | 82 to 116 °C |

Notes

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