

Technical Data Sheet

Qr Resin QR-1018

Polycarbonate
LyondellBasell Industries
Engineering Plastics

Product Description

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

General

| | |
|---------------------------|---|
| Features | <ul style="list-style-type: none">High Impact Resistance |
| Automotive Specifications | <ul style="list-style-type: none">CHRYSLER MS-DB-145 CPN1829 Color: Non-matched ColorCHRYSLER MS-DB-145 CPN1829 Color: 112 Non-matched Color |
| Appearance | <ul style="list-style-type: none">Colors AvailableNatural Color |
| Forms | <ul style="list-style-type: none">Pellets |
| Processing Method | <ul style="list-style-type: none">Injection Molding |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--|-------------------------|------------------------|-------------|
| Density / Specific Gravity | 1.20 | 1.20 g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 Kg) | 18 g/10 min | 18 g/10 min | ASTM D1238 |
| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Tensile Strength (Yield) | 8900 psi | 61.4 MPa | ASTM D638 |
| Flexural Modulus | 340000 psi | 2340 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 | 2.0 to 4.0 hr | 2.0 to 4.0 hr |
| Drying Time, Maximum | 4.0 hr | 4.0 hr |
| Rear Temperature | 500 to 540 °F | 260 to 282 °C |
| Middle Temperature | 520 to 560 °F | 271 to 293 °C |
| Front Temperature | 540 to 560 °F | 282 to 293 °C |
| Nozzle Temperature | 530 to 560 °F | 277 to 293 °C |
| Processing (Melt) Temp | 540 to 580 °F | 282 to 304 °C |
| Mold Temperature | 160 to 200 °F | 71 to 93 °C |

Notes

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