

Technical Data Sheet

Qr Resin QR-1815IM(LT)V

Polycarbonate + PBT
LyondellBasell Industries
Engineering Plastics

Product Description

QR-1815IM(LT)V is available with UV (V) Stabilizer.

General

| | | | |
|------------|----------------------|--------------------|-------------------------------------|
| Additive | • Impact Modifier | • UV Stabilizer | |
| Features | • Chemical Resistant | • Impact Modified | • Low Temperature Impact Resistance |
| Appearance | • Black | • Colors Available | • Natural Color |
| Forms | • Pellets | | |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--|-------------------------|------------------------|-------------|
| Density / Specific Gravity | 1.19 | 1.19 g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (250°C/5.0 Kg) | 15 g/10 min | 15 g/10 min | ASTM D1238 |
| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Tensile Strength (Yield) | 7500 psi | 51.7 MPa | ASTM D638 |
| Tensile Elongation (Break) | 150 % | 150 % | ASTM D638 |
| Flexural Modulus | 275000 psi | 1900 MPa | ASTM D790 |
| Flexural Strength (Yield) | 11000 psi | 75.8 MPa | ASTM D790 |
| Impact | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Notched Izod Impact | | | ASTM D256 |
| -22°F (-30°C) | 8.0 ft·lb/in | 430 J/m | |
| 73°F (23°C) | 13 ft·lb/in | 690 J/m | |
| 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 | 195 °F | 90.6 °C | |

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| Injection | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature | 230 °F | 110 °C |
| Drying Time | 4.0 to 6.0 hr | 4.0 to 6.0 hr |
| Drying Time, Maximum | 6.0 hr | 6.0 hr |
| Rear Temperature | 470 to 510 °F | 243 to 266 °C |
| Middle Temperature | 480 to 520 °F | 249 to 271 °C |
| Front Temperature | 480 to 520 °F | 249 to 271 °C |
| Nozzle Temperature | 480 to 520 °F | 249 to 271 °C |
| Processing (Melt) Temp | 490 to 530 °F | 254 to 277 °C |
| Mold Temperature | 100 to 180 °F | 38 to 82 °C |

Notes

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