

Technical Data Sheet

Qr Resin QR-1010

Polycarbonate
LyondellBasell Industries
Engineering Plastics

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

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)	13 g/10 min	13 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	8500 psi	58.6 MPa	ASTM D638
Flexural Modulus	330000 psi	2280 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	265 °F	129 °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	500 to 536 °F	260 to 280 °C
Middle Temperature	518 to 563 °F	270 to 295 °C
Front Temperature	536 to 581 °F	280 to 305 °C
Nozzle Temperature	527 to 572 °F	275 to 300 °C
Processing (Melt) Temp	536 to 581 °F	280 to 305 °C
Mold Temperature	158 to 203 °F	70 to 95 °C

Notes

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