

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/cm ³	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.