

Technical Data Sheet

# QR Resin QR-9000-GF30

Polyamide 46  
Engineering Plastics

General			
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Chemical Resistant • Good Stiffness	• Good Strength • Heat Stabilized	• High Heat Resistance • Oil Resistant
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.50	1.50 g/cm <sup>3</sup>	ASTM D792

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.53E+6 psi	10500 MPa	ASTM D638
Tensile Strength (Break)	21600 psi	149 MPa	ASTM D638
Tensile Elongation (Break)	2.5 %	2.5 %	ASTM D638
Flexural Modulus	1.33E+6 psi	9170 MPa	ASTM D790
Flexural Strength (Break)	31300 psi	216 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.2 ft·lb/in	61 J/m	ASTM D256

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	535 °F	279 °C	ASTM D648
Melting Temperature	565 °F	296 °C	

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	185 °F	85 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Drying Time, Maximum	4.0 hr	4.0 hr
Suggested Max Moisture	0.05 %	0.05 %
Rear Temperature	540 to 560 °F	282 to 293 °C
Middle Temperature	560 to 590 °F	293 to 310 °C
Front Temperature	570 to 590 °F	299 to 310 °C
Nozzle Temperature	580 °F	304 °C
Processing (Melt) Temp	580 to 595 °F	304 to 313 °C
Mold Temperature	180 to 300 °F	82 to 149 °C

**Notes**

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