

Technical Data Sheet

Qr Resin QR-9046-GF15

Polyamide 46
LyondellBasell Industries
Engineering Plastics

General			
Filler / Reinforcement	• Glass Fiber, 15% 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	1.30	1.30 g/cm ³	ASTM D792

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	841000 psi	5800 MPa	ASTM D638
Tensile Elongation (Break)	3.0 %	3.0 %	ASTM D638
Flexural Modulus	798000 psi	5500 MPa	ASTM D790
Flexural Strength (Break)	31900 psi	220 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.6 ft·lb/in	85 J/m	ASTM D256

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 Psi (1.8 Mpa), Unannealed	490 °F	254 °C	ASTM D648
Melting Temperature	580 °F	304 °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
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.