

Technical Data Sheet

**Qr Resin QR-9046-GF15**

Polyamide 46
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active		
Availability	• North America		
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.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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