

Technical Data Sheet

**Qr Resin QR-9006-GF40**

Polyamide 6
LyondellBasell Industries
Engineering Plastics

General			
Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber, 40% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Good Stiffness	• Good Strength	• Heat Stabilized
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.45	1.45 g/cm ³	ASTM D792
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	22000 psi	152 MPa	ASTM D638
Tensile Elongation (Break)	3.5 %	3.5 %	ASTM D638
Flexural Modulus	1.38E+6 psi	9510 MPa	ASTM D790
Flexural Strength (Yield)	35000 psi	241 MPa	ASTM D790
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	400 °F	204 °C	ASTM D648
Melting Temperature	420 °F	216 °C	

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	175 °F	79 °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	450 to 550 °F	232 to 288 °C
Middle Temperature	450 to 550 °F	232 to 288 °C
Front Temperature	450 to 550 °F	232 to 288 °C
Nozzle Temperature	450 to 550 °F	232 to 288 °C
Processing (Melt) Temp	500 to 550 °F	260 to 288 °C
Mold Temperature	150 to 200 °F	66 to 93 °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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