

Technical Data Sheet

**Qr Resin QR-5000-GF30**

Polyetherimide
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active	
Availability	• North America	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight	
Features	• Chemical Resistant	• High Stiffness
	• High Heat Resistance	• High Strength
Appearance	• Colors Available	• Natural Color
Forms	• Pellets	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.50	1.50 g/cm ³	ASTM D792
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	22500 psi	155 MPa	ASTM D638
Flexural Modulus	1.20E+6 psi	8270 MPa	ASTM D790
Flexural Strength (Yield)	30000 psi	207 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.5 ft·lb/in	80 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	420 °F	216 °C	
264 psi (1.8 MPa), Unannealed	410 °F	210 °C	

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	300 °F	149 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Drying Time, Maximum	6.0 hr	6.0 hr
Rear Temperature	650 to 690 °F	343 to 366 °C
Middle Temperature	670 to 710 °F	354 to 377 °C
Front Temperature	690 to 730 °F	366 to 388 °C
Nozzle Temperature	680 to 720 °F	360 to 382 °C
Processing (Melt) Temp	690 to 730 °F	366 to 388 °C
Mold Temperature	275 to 325 °F	135 to 163 °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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