

Technical Data Sheet

**Qr Resin QR-1200-GF10**

Polycarbonate Alloy
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Features	• General Purpose • High Heat Resistance
Forms	• Pellets

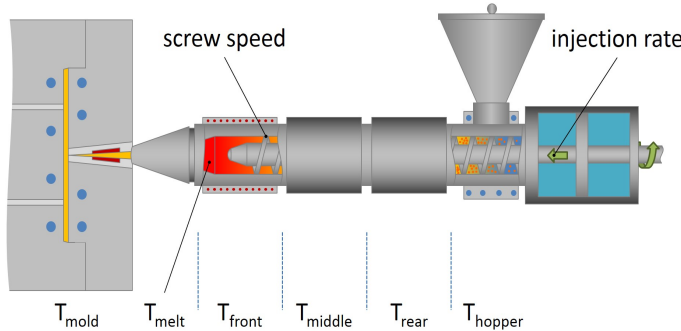
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.22	1.22 g/cm ³	ASTM D792
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	10200 psi	70.0 MPa	ASTM D638
Flexural Modulus	471000 psi	3250 MPa	ASTM D790
Flexural Strength (Yield)	15700 psi	108 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	1.4 ft·lb/in	76 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	290 °F	143 °C	
264 psi (1.8 MPa), Unannealed	280 °F	138 °C	
Additional Information	Nominal Value (English)	Nominal Value (SI)	Test Method
Glass Fiber Content	10 %	10 %	ASTM D5630

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	250 °F	121 °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	550 to 600 °F	288 to 316 °C
Middle Temperature	550 to 600 °F	288 to 316 °C
Front Temperature	550 to 600 °F	288 to 316 °C
Nozzle Temperature	550 to 600 °F	288 to 316 °C
Processing (Melt) Temp	560 to 600 °F	293 to 316 °C
Mold Temperature	170 to 220 °F	77 to 104 °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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