Technical Data Sheet

LyondellBasell

Qr Resin QR-1000-GF30

Polycarbonate
LyondellBasell Industries
Engineering Plastics

Product Description		
Available with UV (V) or Release (R).		
General		
Material Status	• Commercial: Active	
Availability	• North America	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight	
Features	• Good Toughness	
Appearance	• Colors Available	• Natural Color
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.43	1.43 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10 to 20 g/10 min	10 to 20 g/10 min	ASTM D1238
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (Yield)	19000 psi	131 MPa	ASTM D638
Flexural Modulus	1.00E+6 psi	6890 MPa	ASTM D790
Flexural Strength (Yield)	22800 psi	157 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Unnotched Izod Impact (73°F (23°C))	20 ft·lb/in	1100 J/m	ASTM D4812
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	305 °F	152 °C	
264 psi (1.8 MPa), Unannealed	295 °F	146 °C	

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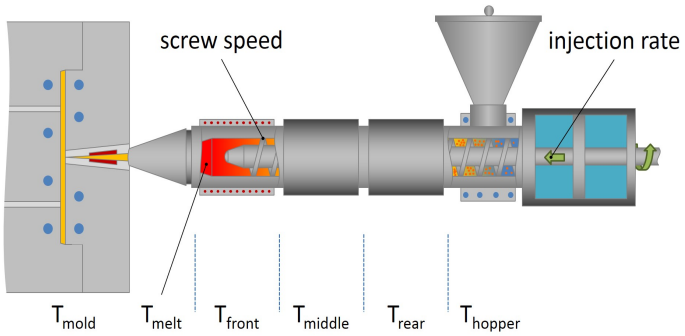

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	250 °F	121 °C
Drying Time	3.0 to 6.0 hr	3.0 to 6.0 hr
Drying Time, Maximum	6.0 hr	6.0 hr
Rear Temperature	540 to 580 °F	282 to 304 °C
Middle Temperature	560 to 600 °F	293 to 316 °C
Front Temperature	580 to 640 °F	304 to 338 °C
Nozzle Temperature	580 to 640 °F	304 to 338 °C
Processing (Melt) Temp	600 to 650 °F	316 to 343 °C
Mold Temperature	180 to 240 °F	82 to 116 °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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