Technical Data Sheet

LyondellBasell

Qr Resin QR-8000

Polybutylene Terephthalate
LyondellBasell Industries
Engineering Plastics

General			
Material Status	• Commercial: Active		
Availability	• North America		
Features	• Chemical Resistant	• Good Flow	• Good Processability
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.31	1.31 g/cm³	ASTM D792
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (Yield)	7100 psi	49.0 MPa	ASTM D638
Flexural Modulus	325000 psi	2240 MPa	ASTM D790
Flexural Strength (Yield)	11500 psi	79.3 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact (73°F (23°C))	1.0 ft·lb/in	53 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	115 °F	46.1 °C	

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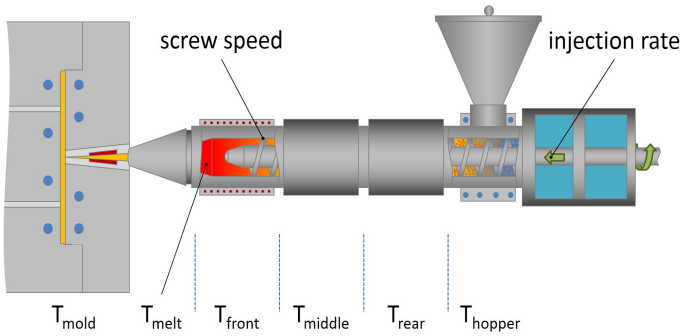

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	250 °F	121 °C
Drying Time	3.0 to 6.0 hr	3.0 to 6.0 hr
Drying Time, Maximum	6.0 hr	6.0 hr
Suggested Max Moisture	0.02 %	0.02 %
Rear Temperature	440 to 470 °F	227 to 243 °C
Middle Temperature	450 to 480 °F	232 to 249 °C
Front Temperature	460 to 490 °F	238 to 254 °C
Nozzle Temperature	450 to 480 °F	232 to 249 °C
Processing (Melt) Temp	460 to 490 °F	238 to 254 °C
Mold Temperature	120 to 170 °F	49 to 77 °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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