Technical Data Sheet

Qr Resin QR-8000

Polybutylene Terephthalate
LyondellBasell Industries
Engineering Plastics

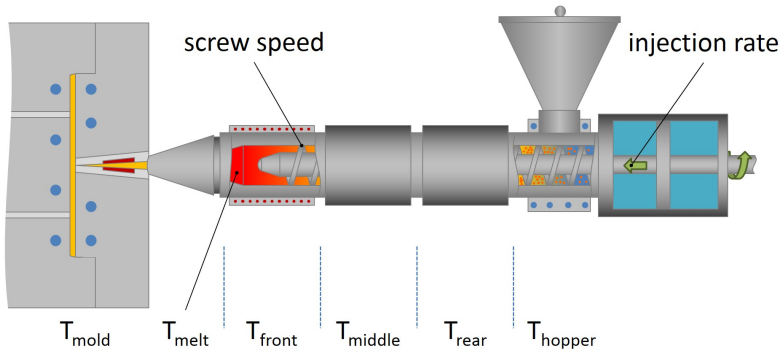
General			
Features	• Chemical Resistant	• Good Flow	• Good Processability
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		

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	

Technical Data Sheet

Qr Resin QR-8000

Polybutylene Terephthalate
LyondellBasell Industries
Engineering Plastics



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.