

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/cm <sup>3</sup>	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.