Technical Data Sheet

Qr Resin QR-8000-GF30

Polybutylene Terephthalate
LyondellBasell Industries
Engineering Plastics

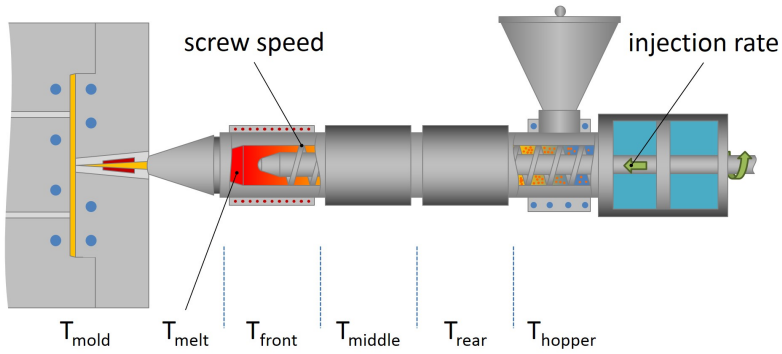
General			
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Chemical Resistant • Good Dimensional Stability	• Good Stiffness • High Heat Resistance	• High Strength
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.53	1.53 g/cm³	ASTM D792
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (Break)	17000 psi	117 MPa	ASTM D638
Tensile Elongation (Break)	3.0 %	3.0 %	ASTM D638
Flexural Modulus	1.05E+6 psi	7240 MPa	ASTM D790
Flexural Strength (Break)	27000 psi	186 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact (73°f (23°c))	1.5 ft·lb/in	80 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	415 °F	213 °C	
264 Psi (1.8 Mpa), Unannealed	400 °F	204 °C	

Technical Data Sheet

Qr Resin QR-8000-GF30

Polybutylene Terephthalate
LyondellBasell Industries
Engineering Plastics



Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	250 °F	121 °C
Drying Time	3.0 to 8.0 hr	3.0 to 8.0 hr
Drying Time, Maximum	8.0 hr	8.0 hr
Rear Temperature	460 to 490 °F	238 to 254 °C
Middle Temperature	470 to 500 °F	243 to 260 °C
Front Temperature	480 to 510 °F	249 to 266 °C
Nozzle Temperature	470 to 500 °F	243 to 260 °C
Processing (Melt) Temp	480 to 510 °F	249 to 266 °C
Mold Temperature	150 to 190 °F	66 to 88 °C

Notes

These are typical property values not to be construed as specification limits.