Technical Data Sheet

Qr Resin QR-8000-GF15

Polybutylene Terephthalate
LyondellBasell Industries
Engineering Plastics

General			
Filler / Reinforcement	• Glass Fiber, 15% 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	1.42	1.42 g/cm³	ASTM D792
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (Break)	12500 psi	86.2 MPa	ASTM D638
Tensile Elongation (Break)	3.0 %	3.0 %	ASTM D638
Flexural Modulus	650000 psi	4480 MPa	ASTM D790
Flexural Strength (Yield)	20000 psi	138 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	380 °F	193 °C	
264 Psi (1.8 Mpa), Unannealed	370 °F	188 °C	

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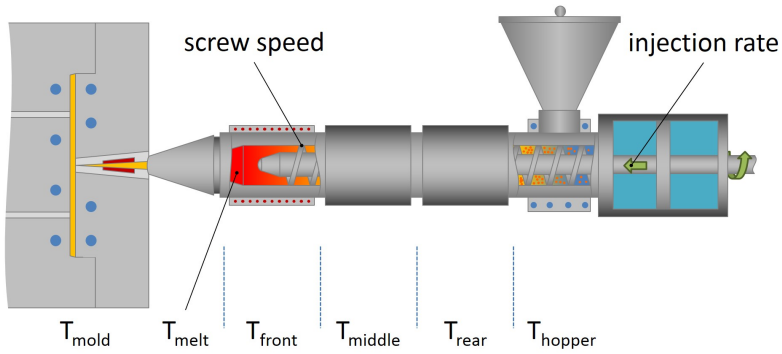

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	250 °F	121 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Drying Time, Maximum	6.0 hr	6.0 hr
Rear Temperature	450 to 520 °F	232 to 271 °C
Middle Temperature	450 to 520 °F	232 to 271 °C
Front Temperature	470 to 520 °F	243 to 271 °C
Nozzle Temperature	470 to 520 °F	243 to 271 °C
Processing (Melt) Temp	480 to 520 °F	249 to 271 °C
Mold Temperature	150 to 200 °F	66 to 93 °C

Notes

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