

QR Resin QR-8000-GF15

Polybutylene Terephthalate

QTR, Inc.

Message:

QR Resin QR-8000-GF15 is a Polybutylene Terephthalate (PBT) product filled with 15% glass fiber. It can be processed by injection molding and is available in North America.

- Characteristics include:
- Chemical Resistant
 - Good Dimensional Stability
 - Good Stiffness
 - Heat Resistant
 - High Strength

General Information			
Filler / Reinforcement	Glass Fiber, 15% Filler by Weight		
Features	Good Chemical Resistance		
	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	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	86.2	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	4480	MPa	ASTM D790
Flexural Strength (Yield)	138	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	193	°C	
1.8 MPa, Unannealed	188	°C	
Injection	Nominal Value	Unit	

Drying Temperature	121	°C
Drying Time	4.0 to 6.0	hr
Drying Time, Maximum	6.0	hr
Rear Temperature	232 to 271	°C
Middle Temperature	232 to 271	°C
Front Temperature	243 to 271	°C
Nozzle Temperature	243 to 271	°C
Processing (Melt) Temp	249 to 271	°C
Mold Temperature	65.6 to 93.3	°C

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Recommended distributors for this material

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