

# QR Resin QR-4000-GF10

Polyphenylene Ether + PS + Nylon

QTR, Inc.

## Message:

QR Resin QR-4000-GF10 is a Polyphenylene Ether + PS + Nylon (PPE+PS+Nylon) product filled with 10% glass fiber. It can be processed by injection molding and is available in North America. Typical application: Automotive.

Characteristics include:

Chemical Resistant

Good Stiffness

Heat Resistant

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	Good Chemical Resistance		
	Good Stiffness		
	High Heat Resistance		
Appearance	Black		
	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	66.2	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	2900	MPa	ASTM D790
Flexural Strength (Yield)	152	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-29°C	53	J/m	
23°C	69	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	232	°C	
1.8 MPa, Unannealed	177	°C	
Injection	Nominal Value	Unit	
Drying Temperature	107	°C	
Drying Time	4.0 to 8.0	hr	
Drying Time, Maximum	8.0	hr	

Rear Temperature	266 to 299	°C
Middle Temperature	271 to 299	°C
Front Temperature	277 to 299	°C
Nozzle Temperature	282 to 299	°C
Processing (Melt) Temp	282 to 299	°C
Mold Temperature	76.7 to 116	°C

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