

QR Resin QR-5000-GF20

Polyether Imide

QTR, Inc.

Message:

QR Resin QR-5000-GF20 is a Polyether Imide (PEI) product filled with 20% glass fiber. It is available in North America.

Characteristics include:

Chemical Resistant

Heat Resistant

High Stiffness

High Strength

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Chemical Resistance		
	High Heat Resistance		
	High Stiffness		
	High Strength		
Appearance	Black		
	Colors Available		
	Natural Color		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	131	MPa	ASTM D638
Flexural Modulus	5450	MPa	ASTM D790
Flexural Strength (Yield)	207	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	64	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	209	°C	
1.8 MPa, Unannealed	208	°C	
Injection	Nominal Value	Unit	
Drying Temperature	149	°C	
Drying Time	4.0 to 6.0	hr	
Drying Time, Maximum	6.0	hr	
Rear Temperature	343 to 366	°C	

Middle Temperature	354 to 377	°C
Front Temperature	366 to 388	°C
Nozzle Temperature	360 to 382	°C
Processing (Melt) Temp	366 to 388	°C
Mold Temperature	135 to 163	°C

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