

QR Resin QR-5000

Polyether Imide

QTR, Inc.

Message:

QR Resin QR-5000 is a Polyether Imide (PEI) product. It can be processed by injection molding and is available in North America.

Characteristics include:

Chemical Resistant

Good Toughness

Heat Resistant

General Information			
Features	Good Chemical Resistance		
	Good Toughness		
	High Heat Resistance		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	103	MPa	ASTM D638
Flexural Modulus	3170	MPa	ASTM D790
Flexural Strength (Yield)	138	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	206	°C	
1.8 MPa, Unannealed	193	°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	321 to 343	°C	
Middle Temperature	327 to 354	°C	
Front Temperature	343 to 371	°C	

Nozzle Temperature	338 to 360	°C
Processing (Melt) Temp	343 to 371	°C
Mold Temperature	132 to 160	°C

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Recommended distributors for this material

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