

QR Resin QR-8000

Polybutylene Terephthalate

QTR, Inc.

Message:

QR Resin QR-8000 is a Polybutylene Terephthalate (PBT) product. It is available in North America.

Characteristics include:

Chemical Resistant

Good Processability

General Information			
Features	Good Chemical Resistance		
	Good Flow		
	Good Processability		
Appearance	Black		
	Colors Available		
	Natural Color		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.80 to 1.6	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	49.0	MPa	ASTM D638
Flexural Modulus	2240	MPa	ASTM D790
Flexural Strength (Yield)	79.3	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	143	°C	
1.8 MPa, Unannealed	46.1	°C	
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 to 6.0	hr	
Drying Time, Maximum	6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	227 to 243	°C	
Middle Temperature	232 to 249	°C	
Front Temperature	238 to 254	°C	
Nozzle Temperature	232 to 249	°C	

Processing (Melt) Temp	238 to 254	°C
Mold Temperature	48.9 to 76.7	°C

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