

# QR Resin QR-4000

Polyphenylene Ether + PS + Nylon

QTR, Inc.

## Message:

QR Resin QR-4000 is a Polyphenylene Ether + PS + Nylon (PPE+PS+Nylon) product. It can be processed by injection molding and is available in North America. Typical application: Automotive. Primary characteristic: chemical resistant.

General Information			
Features	Good Chemical Resistance Paintable		
Appearance	Black Grey		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (280°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	1.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	55.2	MPa	ASTM D638
Flexural Modulus	2070	MPa	ASTM D790
Flexural Strength (Yield)	86.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	190	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	124	°C	
Injection	Nominal Value	Unit	
Drying Temperature	93.3 to 107	°C	
Drying Time	4.0 to 6.0	hr	
Drying Time, Maximum	6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	249 to 277	°C	
Middle Temperature	254 to 282	°C	
Front Temperature	260 to 288	°C	
Nozzle Temperature	271 to 293	°C	
Processing (Melt) Temp	266 to 288	°C	

Mold Temperature

65.6 to 93.3

°C

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### Recommended distributors for this material

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