QR-9000-GF30
Nylon 4/6

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	General Description
Appearance	Natural/Black Color Custom Colors Available
Features	High Heat Resistance Heat Stabilized (PO Specified) Good Strength/Stiffness Oil Resistant, Chemical Resistant
Filler/Additive	30% Glass

Property	Method	Value	Unit
-Physical			
Specific Gravity	ASTM D792	1.5	
Melting Point		565	°F
-Mechanical			
Flex Modulus	ASTM D790	1,330,000	psi
Flex Strength @ Break	ASTM D790	31,300	psi
Notched Izod Impact, 73°F	ASTM D256	1.15	ft.lbs/in
Tensile Modulus	ASTM D638	1,530,000	psi
Tensile Strength @ Break	ASTM D638	21,600	psi
Tensile Elongation @ Break	ASTM D638	2.5	%
-Thermal			
Deflection Temp @ 264 psi	ASTM D648	535	°F
Deflection Temp @ 66 psi	ASTM D648	N/A	°F

-Injection Molding

Drying Conditions		
Min 2 hours – Max 4 hours	185	°F
Cylinder		
Rear	540-560	°F
Middle	560-590	°F
Front	570-590	°F
Nozzle	580	°F
Mold		
Maximum	300	°F
Minimum	180	°F
Processing Temp	580-595	°F
Maximum Moisture Content	0.05	%

ISO9001:2000 Registered

A8224 UL REGISTERED FIRM ISO-9001:2000

QTR, Inc.

The guidelines listed above are based on specimens at various thicknesses typical in manufacturing. These values are not intended to be used for specification purposes. These are recommended starting parameters. The equipment part design and tooling will influence final process parameters. The percent recycle is dependent on part design, wall thickness, process, and final performance requests.