



QR-5000-GF10

Polyetherimide

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Appearance	<u>General Description</u> Natural/Black Color Custom Colors Available
Features	Good Chemical Resistance High Heat Resistance Good Dimensional Stability High Rigidity 10% Glass
Filler/Additive	
Automotive Approvals	GMP.PEI.002 (General Motors)

<u>Property</u>	<u>Method</u>	<u>Value</u>	<u>Unit</u>
<i>-Physical</i>			
Specific Gravity	ASTM D792	1.33	
Melt Flow Rate, 337°C/ 6.6 kg	ASTM D1238	8	g/10min
Mold Shrink, Linear Flow (0.125)	ASTM D955	0.006	in/in
<i>-Mechanical</i>			
Flex Modulus	ASTM D790	550,000	psi
Flex Strength @ Yield	ASTM D790	21,000	psi
Notched Izod Impact, 73°F	ASTM D256	1.0	ft.lbs/in
- Low Temp (°F)	ASTM D256	N/A	ft.lbs/in
Tensile Strength @ Yield	ASTM D638	15,000	psi
<i>-Thermal</i>			
Deflection Temp @ 264 psi	ASTM D648	396	°F
Deflection Temp @ 66 psi	ASTM D648	402	°F

These test results are based on reliable procedures. Due to variable conditions and methods of processing, no guarantees or warranties are expressed or implied including the implied warranty of merchantability and fitness for particular use. The above information is not to be construed as a license or a recommendation to infringe on any patents.

-Injection Molding

Drying Conditions

Min 4 hours – Max 6 hours 300 °F

Cylinder

Rear 610-650 °F

Middle 620-670 °F

Front 650-700 °F

Nozzle 640-680 °F

Mold

Maximum 320 °F

Minimum 270 °F

Processing Temp 650-700 °F

ISO9001:2000 Registered



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.