



# QR-1012 Polycarbonate

2301 St. Joseph Industrial Park Drive Evansville, IN 47720 Phone 812/429-0901 Fax 812/429-0905 www.customcompounding.com

Appearance	<u>General Description</u> Natural Color Custom Colors Available
Features	High Impact Injection Grade With UV(V) or Release(R)
Filler/Additive	No

<u>Property</u>	<u>Method</u>	<u>Value</u>	<u>Unit</u>
<i>-Physical</i>			
Specific Gravity	ASTM D792	1.2	
Melt Flow Rate, 300°C/ 1.2 kg	ASTM D1238	12	g/10min
Mold Shrink, Linear Flow (0.125)	ASTM D955	0.006	in/in
<i>-Mechanical</i>			
Flex Modulus	ASTM D790	340,000	psi
Flex Strength @ Yield	ASTM D790	13,900	psi
Notched Izod Impact, 73°F	ASTM D256	12	ft.lbs/in
- Low Temp ( °F)	ASTM D256	N/A	ft.lbs/in
Tensile Strength @ Yield	ASTM D638	9,000	psi
<i>-Thermal</i>			
Deflection Temp @ 264 psi	ASTM D648	270	°F
Deflection Temp @ 66 psi	ASTM D648	280	°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 2 hours – Max 4 hours      250      °F

#### Cylinder

Rear      520-560      °F

Middle      540-590      °F

Front      560-600      °F

Nozzle      550-590      °F

#### Mold

Maximum      200      °F

Minimum      160      °F

Processing Temp      560-600      °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.