



**TRIVALENCE**

# TriVEX™ 21G10FR2 (12M) (U,R)

**Polycarbonate**

**General Information**

**Product Description**

Flame retardant, 10% glass reinforced polycarbonate.

**FEATURES**

- Flame Retardant
- Great Impact
- UV Stabilized
- Medium Flow

**ADDITIONAL FORMULAS**

- Added Release "R"
- Added UV "U"

**COLOR**

-All

**General**

**Typical Applications**

-Appliance, electrical, lawn & garden, automotive, electronic

**Processing Method**

-Injection/Extrusion

**Form(s)**

-Pellets

**Availability**

-North America, Europe, Asia, Latin America

**ASTM / ISO Properties<sup>1</sup>**

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density	1.26	g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (300°C/1.2kg)	12	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.2 to 0.4	%	TVT Internal
Outdoor Suitability (QUV) ("U" grades only)	Pass		TVT Internal

<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength, yld	9400	psi	ASTM D638
Tensile Elongation	10	%	ASTM D638
Flexural Modulus	480000	psi	ASTM D790
Notched Izod Impact	2.5	ft-lbs/in	ASTM D256
Rockwell Hardness	122	R-Scale	ASTM D785

<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (0.45 MPa)	292	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	284	°F	ASTM D648
Vicat Softening Temperature	308	°F	ASTM D1525
RTI Elec	176	°F	UL 746
RTI IMP	176	°F	UL 746
RTI Str	176	°F	UL 746
CLTE - Flow	1.8E-5	in/in/°F	ASTM E831

<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
0.06 in	V2		UL94 TVT Internal
0.12 in	V0		UL94 TVT Internal

**Recommended Processing Guidance**

Drying Temperature	230 to 250	°F
Drying Time	3 to 6	Hours
Suggested Max Moisture	0.02	%
Processing Melt Temperature	580 to 615	°F
Mold Temperature	175 to 230	°F