



**TRIVALENCE**

# TriVEX™ 21G10FR2 (6M) (U,R)

**Polycarbonate**

## General Information

### Product Description

Flame retardant, 10% glass reinforced polycarbonate.

#### FEATURES

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

#### ADDITIONAL FORMULAS

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

#### COLOR

- All

### General

<b>Typical Applications</b>	-Appliance, electrical, lawn & garden, automotive, electronic
<b>Processing Method</b>	-Injection/Extrusion
<b>Form(s)</b>	-Pellets
<b>Availability</b>	-North America, Europe, Asia, Latin America

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

Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (300°C/1.2kg)	6	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

Mechanical	Nominal Value	Unit	Test Method
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

Thermal	Nominal Value	Unit	Test Method
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

Flammability	Nominal Value	Unit	Test Method
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