



**TRIVALENCE**

# TriVEX™ 16G10 (U,R)

**Polycarbonate + Siloxane**

## General Information

### Product Description

Glass reinforced polycarbonate modified with siloxane for superior cold temperature impact resistance.

#### FEATURES

-Good Impact/Ductility (Ambient and Extreme Cold)  
 -10% Glass Reinforced  
 -Improved Chemical Resistance  
 -RoHS/REACH Compliant

#### ADDITIONAL FORMULAS

-Added Release "R"  
 -Additional UV "U" - Great UV Performance

#### COLOR

-All

### General

#### Typical Applications

-Solar, military and defense gear, healthcare, EV battery, sporting goods, safety and rescue, transportation, lawn and garden, industrial packaging, electrical components, oil/gas, appliance, aerospace, 3d printing, recreational vehicles, building materials, railway, wire and cable.

#### Processing Method

-Injection/Extrusion

#### Form(s)

-Pellets

#### Availability

-North America, Europe, Latin America

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

### Physical

	Nominal Value	Unit	Test Method
Density	1.25	g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (300°C/1.2kg)	7	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.2 to 0.7	%	TVT Internal
Outdoor Suitability (QUV) (U Grades)	Pass		TVT Internal

### Mechanical

	Nominal Value	Unit	Test Method
Tensile Strength, brk	7000	psi	ASTM D638
Tensile Elongation	>6	%	ASTM D638
Flexural Modulus	505,000	psi	ASTM D790
Notched Izod Impact (R.T)	5	ft-lbs/in	ASTM D256
Notched Izod Impact (-40C)	2.5	ft-lbs/in	ASTM D257
Rockwell Hardness	121	R-Scale	ASTM D785

### Thermal

	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	275	°F	ASTM D648
Vicat Softening Temperature	295	°F	ASTM D1525
CLTE - Flow	2.7E-5	in/in/°F	ASTM E831

### Flammability

	Nominal Value	Unit	Test Method
0.12 in	V1		UL94 - Pending

## 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 620	°F
Mold Temperature	170 to 220	°F