



TRIVALENCE

# TriVEX™ 16G10 (U,R)

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## 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

<sup>1</sup> Note: The values listed on this guide are typical values based on general molding conditions and used solely for the purpose of general material processing. It is recommended that application properties be derived from actual molded articles, whereas properties as molded could vary. These are not to be used as specifications. This data does not provide an implied conditional warranty.