



**TRIVALENCE**

# TriVEX™ 33G10 (U,R)

**Polycarbonate**

General Information
---------------------

Product Description
---------------------

Glass fiber reinforced polycarbonate, impact modified

**FEATURES**

- 10% Glass Fiber Reinforced
- Great Strength
- Good Creep Resistance
- High Flow

**ADDITIONAL FORMULAS**

- Impact Modified
- 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>
------------------------------------

Physical	Nominal Value	Unit	Test Method
----------	---------------	------	-------------

Density	1.25	g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (300°C/1.2kg)	18	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.2 to 0.5	%	TVT Internal
Outdoor Suitability - QUV ("U" grades only)	Pass		QUV - TVT Internal

Mechanical	Nominal Value	Unit	Test Method
------------	---------------	------	-------------

Tensile Strength, yld	10,200	psi	ASTM D638
Tensile Elongation	14	%	ASTM D638
Flexural Modulus	500,000	psi	ASTM D790
Notched Izod Impact	3	ft-lbs/in	ASTM D256
Rockwell Hardness	120	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)	274	°F	ASTM D648
Vicat Softening Temperature	301	°F	ASTM D1525
CLTE - Flow	1.9E-5	in/in/°F	ASTM E831

Flammability	Nominal Value	Unit	Test Method
--------------	---------------	------	-------------

0.06 in	HB		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	590 to 640	°F
Mold Temperature	175 to 230	°F