



TRIVALENCE

TriVEX™ 13G10 (U,R)

Polycarbonate

General Information

Product Description

Glass fiber reinforced polycarbonate, impact modified

FEATURES

- 10% Glass Fiber Reinforced
- Great Strength
- Good Creep Resistance
- Low 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 Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm ³	ASTM D792
Melt Flow Rate (300°C/1.2kg)	8	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	