



TRIVALENCE

TriVEX 32G40 (U,R)

Polycarbonate

General Information

Product Description

Glass fiber reinforced polycarbonate, impact modified

FEATURES

- 40% Glass Fiber Reinforced
- Great Strength -Good Impact
- Good Creep Resistance
- Medium Flow

ADDITIONAL FORMULAS

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

COLOR

-All

General

Typical Applications

-Appliance, electrical, lawn & garden, automotive, electronic

Processing Method

-Injection

Form(s)

-Pellets

Availability

-North America, Europe, Asia, Latin America

ASTM / ISO Properties¹

	Nominal Value	Unit	Test Method
Physical			
Density	1.52	g/cm ³	ASTM D792
Melt Flow Rate (300°C/1.2kg)	20	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.1 to 0.3	%	TVT Internal
Outdoor Suitability - QUV ("U" grades only)	Pass		QUV - TVT Internal
Mechanical			
Tensile Strength, yld	20,000	psi	ASTM D638
Tensile Elongation	>2	%	ASTM D638
Flexural Modulus	1350000	psi	ASTM D790
Notched Izod Impact	2.0	ft-lbs/in	ASTM D256
Rockwell Hardness	123	R-Scale	ASTM D785
Thermal			
Deflection Temperature Under Load (0.45 MPa)	302	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	289	°F	ASTM D648
Vicat Softening Temperature	309	°F	ASTM D1525
CLTE - Flow	1.5E-5	in/in/°F	ASTM E831
Flammability			
0.06 in		HB	UL94 TVT Internal

Recommended Processing Guidance

Drying Temperature	230 to 260 °F
Drying Time	3 to 6 Hours
Suggested Max Moisture	0.02 %
Processing Melt Temperature	600 to 650 °F
Mold Temperature	180 to 250 °F