



TRIVALENCE

TriVEX™ 21G10FR0 (20M)

Polycarbonate

Product Description	General Information
---------------------	---------------------

UL certified flame retardant, 10% glass reinforced product is available in melt flow ranges of 6 - 20.

FEATURES

- Flame Retardant
- High Impact
- UV Stabilized (f1 rated)
- Weatherable

ADDITIONAL FORMULAS

- Added Release
- Additional Melt Flows

COLOR

-All



**Underwriters
Laboratories**

General

- | | |
|-----------------------------|---|
| Typical Applications | -Appliance, electrical, lawn & garden, automotive, electronic |
| Processing Method | -Injection |
| Form(s) | -Pellets |
| Availability | -North America, Europe, Asia, Latin America |

ASTM / ISO Properties ¹		
Physical	Nominal Value Unit	Test Method

Density	1.26 g/cm ³	ASTM D792
Melt Flow Rate (300°C/1.2kg)	20 g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.2 to 0.4 %	TVT Internal
Outdoor Suitability	f1	UL746C E494706

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

Tensile Strength, yld	9400 psi	ASTM D638
Tensile Elongation	10 %	ASTM D638
Flexural Modulus	480000 psi	ASTM D790
Notched Izod Impact	2.5 ft-lbs/in	ASTM D256
Rockwell Hardness	122 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)	284 °F	ASTM D648
Vicat Softening Temperature	308 °F	ASTM D1525
RTI Elec	176 °F	UL 746
RTI IMP	176 °F	UL 746
RTI Str	176 °F	UL 746
CLTE - Flow	1.8E-5 in/in/°F	ASTM E831

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

0.06 in	V0	UL94 File E494706
0.12 in	V0, 5VA	UL94 File E494706

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 615 °F
Mold Temperature	175 to 230 °F