

Headquarters 3001 Maxx Rd Evansville, IN 47711 800.209.2517

## TriVEX™ 31G10FR2 (U,R)

**Polycarbonate** 

trivalencetechnologies.com

**COLOR** 

-All

Prod	uct	Desci	ription

Flame retardant, 10% glass reinforced polycarbonate.

FEATURES ADDITIONAL FORMULAS

-Flame Retardant -Added Release "R"

-Great Impact -Added UV "U"

-UV Stabilized

-High Flow

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)	20 g/10min	ASTM D1238	
Molding Shrinkage - Flow (3.2mm)	0.2 to 0.4 %	TVT Internal	
Outdoor Suitability (QUV) ("U" grades only)	Pass	TVT Internal	
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	V2	UL94 TVT Internal	
0.12 in	V0	UL94 TVT Internal	
Recommended Processing Guidance			

General Information

## **Recommended Processing Guidance**

Drying Temperature230 to 250 °FDrying Time3 to 6 HoursSuggested Max Moisture0.02 %Processing Melt Temperature580 to 615 °FMold Temperature175 to 230 °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 or 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.