Headquarters
3001 Maxx Road
Evansville, IN 47711
800.209.2517

trivalencetechnologies.com

TriVEX 21G10FR0 (20M)

Polycarbonate

General Information

Product Description

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

FEATURES	ADDITIONAL FORMULAS	COLOR
-Flame Retardant	-Added Release	-All
-High Impact	-Additional Melt Flows	
-UV Stabilized (f1 rated)		
-Weatherable		

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/cm³	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	

[1] Note: The values listed on this guide are typical values based on general molding conditions and used solely for the purpose of 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.