



TRIVALENCE

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TriVEX™ 21G10FR0 (12M)

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Polycarbonate

General Information

Product Description

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)
- High Flow
- Weatherable

ADDITIONAL FORMULAS

- Added Release
- Additional Melt Flows

COLOR

- All



Underwriters
Laboratories

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 ¹		
Physical	Nominal Value Unit	Test Method
Density	1.26 g/cm ³	ASTM D792
Melt Flow Rate (300°C/1.2kg)	12 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.