



TRIVALENCE

TriVEX 21G10FR2 (U,R)

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Polycarbonate

General Information

Product Description

Flame retardant, 10% glass reinforced polycarbonate.

FEATURES

- Flame Retardant
- High Impact
- UV Stabilized
- Medium Flow

ADDITIONAL FORMULAS

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

COLOR

-All

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 Properties¹

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 (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

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.