



TRIVALENCE

TriVEX 12G20FR0

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Polycarbonate

General Information

Product Description

Flame retardant, 20% glass reinforced polycarbonate

FEATURES

- Flame Retardant
- Good Mechanical Properties
- 20% Glass Fiber Reinforced

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	1.34	g/cm ³	ASTM D792
Melt Flow Rate (300°C/1.2kg)	8	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.2 to 0.4	%	TVT Internal
Outdoor Suitability QUV ("U" grades only)	Pass		QUV TVT Internal

Mechanical

	Nominal Value	Unit	Test Method
Tensile Strength, yld	15000	psi	ASTM D638
Tensile Elongation	5	%	ASTM D638
Flexural Modulus	750000	psi	ASTM D790
Notched Izod Impact	1.8	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)	296	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	293	°F	ASTM D648
Vicat Softening Temperature	325	°F	ASTM D1525
CLTE - Flow	1.5E-5	in/in/°F	ASTM E831

Flammability

	Nominal Value	Unit	Test Method
0.06 in	V0		UL94 TVT Internal/z
0.12 in	V0, 5V		UL94 TVT Internal/z

Recommended Processing Guidance

Drying Temperature	230 to 250	°F
Drying Time	3 to 6	Hours
Suggested Max Moisture	0.02	%
Processing Melt Temperature	590 to 640	°F
Mold Temperature	175 to 240	°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.