



TRIVALENCE

TriVEX 12G20NHFR (U,R)

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Polycarbonate

General Information

Product Description

Non halogenated flame retardant polycarbonate 20% glass reinforced

FEATURES

- Good Heat Resistance
- 20% Glass Reinforced
- Halogen Free Flame Retardant
- RoHS/REACH Compliant

ADDITIONAL FORMULAS

- Added Release "R"
- Additional UV "U" - Great UV Performance

COLOR

- All
- Opaque

General

- Typical Applications** -Appliance, electrical, lawn & garden, automotive, military, rescue, sporting goods
- Processing Method** -Injection/Extrusion
- Form(s)** -Pellets
- Availability** -North America, Europe, Latin America

ASTM / ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ASTM D792
Melt Flow Rate (300°C/1.2kg)	7	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.1 to 0.3	%	TVT Internal
Outdoor Suitability (QUV) (U Grades)	Pass		TVT Internal

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength, brk	13,500	psi	ASTM D638
Tensile Elongation	2.5	%	ASTM D638
Flexural Modulus	780000	psi	ASTM D790
Notched Izod Impact (R.T)	2	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)	288	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	290	°F	ASTM D648
Vicat Softening Temperature	297	°F	ASTM D1525

Flammability	Nominal Value	Unit	Test Method
0.06 in	V0		UL94 - TVT Internal
0.12 in	5V		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 550 to 600 °F
- Mold Temperature 140 to 195 °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.