TRIVALENCE

TriVEX™ 12G20FR0

Polycarbonate

General Information

Product Description

Flame retardant, 20% glass reinforced polycarbonate

FEATURES	ADDITIONAL FORMULAS	COLOR
-Flame Retardant	-Added Release "R"	-All
-Good Mechanical Properties	-Added UV "U"	
-20% Glass Fiber Reinforced		

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	1.34	g/cm³	ASTM D792
Melt Flow Rate (300°C/1.2kg)	8	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.2 to 0.5	%	TVT Internal
Outdoor Suitability QUV ("U" grades only)	Pass		QUV TVT Internal
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength, yld	14000	psi	ASTM D638
Tensile Elongation	5	%	ASTM D638
Flexural Modulus	760000	psi	ASTM D790
Notched Izod Impact	1.5	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)	290	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	288	°F	ASTM D648
Vicat Softening Temperature	300	°F	ASTM D1525
CLTE - Flow	1.5E-5	in/in/°F	ASTM E831
Flammability	**Nominal Value**	**Unit**	**Test Method**
0.06 in	V2		UL94 TVT Internal/z
0.12 in	V0		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