TRIVALENCE

TriVEX™ 13G20 (U,R)

Polycarbonate

General Information

Product Description

Glass fiber reinforced polycarbonate, impact modified

FEATURES	ADDITIONAL FORMULAS	COLOR
-20% Glass Fiber Reinforced	-Added Release "R"	-All
-Great Strength -Good Impact	-Added UV "U"	
-Good Creep Resistance		
-Low Flow		

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	1.35	g/cm³	ASTM D792
Melt Flow Rate (300°C/1.2kg)	6	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	15,800	psi	ASTM D638
Tensile Elongation	>8	%	ASTM D638
Flexural Modulus	750000	psi	ASTM D790
Notched Izod Impact	3.5	ft-lbs/in	ASTM D256
Rockwell Hardness	121	R-Scale	ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa)	295	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	280	°F	ASTM D648
Vicat Softening Temperature	318	°F	ASTM D1525
CLTE - Flow	1.6E-5	in/in/°F	ASTM E831
Flammability	**Nominal Value**	**Unit**	**Test Method**
0.06 in	HB		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	590 to 640	°F
Mold Temperature	175 to 230	°F