TRIVALENCE

TriVEX™ 22G40 (U,R)

Polycarbonate

General Information

Product Description

Glass fiber reinforced polycarbonate

FEATURES	ADDITIONAL FORMULAS	COLOR
-40% Glass Fiber Reinforced	-Added Release "R"	-All
-Great Strength	-Added UV "U"	
-Good Creep Resistance		
-Medium Flow		

General

Typical Applications	-Appliance, electrical, lawn & garden, automotive, electronic
Processing Method	-Injection
Form(s)	-Pellets
Availability	-North America, Europe, Asia, Latin America

ASTM / ISO Properties[1]

Physical	Nominal Value	Unit	Test Method
Density	1.52	g/cm³	ASTM D792
Melt Flow Rate (300°C/1.2kg)	12	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.1 to 0.3	%	TVT Internal
Outdoor Suitability - QUV ("U" grades only)	Pass		QUV - TVT Internal
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength, yld	20,000	psi	ASTM D638
Tensile Elongation	>2	%	ASTM D638
Flexural Modulus	1350000	psi	ASTM D790
Notched Izod Impact	2.0	ft-lbs/in	ASTM D256
Rockwell Hardness	123	R-Scale	ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa)	302	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	289	°F	ASTM D648
Vicat Softening Temperature	309	°F	ASTM D1525
CLTE - Flow	1.5E-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 260	°F	
Drying Time	3 to 6	Hours	
Suggested Max Moisture	0.02	%	
Processing Melt Temperature	600 to 650	°F	
Mold Temperature	180 to 250	°F	