



**TRIVALENCE**

# TriVEX™ 22G40FR0 (U,R)

**Polycarbonate**

**General Information**

**Product Description**

Glass fiber reinforced polycarbonate. Flame retardant.

**FEATURES**

- 40% Glass Fiber Reinforced
- Great Strength
- Good Creep Resistance
- Medium Flow

**ADDITIONAL FORMULAS**

- Flame Retardant
- Added Release "R"
- Added UV "U"

**COLOR**

-All

**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<sup>1</sup>**

<b>Physical</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Density	1.54 g/cm <sup>3</sup>	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
<b>Mechanical</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Tensile Strength, yld	20,000 psi	ASTM D638
Tensile Elongation	>2 %	ASTM D638
Flexural Modulus	1400000 psi	ASTM D790
Notched Izod Impact	1.8 ft-lbs/in	ASTM D256
Rockwell Hardness	123 R-Scale	ASTM D785
<b>Thermal</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
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
<b>Flammability</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
0.06 in	V0	UL94 TVT Internal
<b>Recommended Processing Guidance</b>		
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	