



**TRIVALENCE**

# TriVEX™ 23G20 (U,R)

**Polycarbonate**

**General Information**

**Product Description**

Glass fiber reinforced polycarbonate, impact modified

**FEATURES**

- 30% Glass Fiber Reinforced
- Great Strength      -Good Impact
- Good Creep Resistance
- Medium Flow

**ADDITIONAL FORMULAS**

- Added Release "R"
- Added UV "U"

**COLOR**

-All

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

**Physical**

**Nominal Value Unit**

**Test Method**

Density	1.35 g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (300°C/1.2kg)	12 g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.2 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