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# **TriVEX™ 12G40 (U,R)**

trivalencetechnologies.com

## **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

-Low 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 <sup>1</sup>		
Physical	Nominal Value Unit	Test Method
Density	1.52 g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (300°C/1.2kg)	8 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	НВ	UL94 TVT Internal

### **Recommended Processing Guidance**

Drying Temperature230 to 260 °FDrying Time3 to 6 HoursSuggested Max Moisture0.02 %Processing Melt Temperature600 to 650 °FMold Temperature180 to 250 °F

<sup>1</sup> Note: The values listed on this guide are typical values based on general molding conditions and used solely for the purpose of general material processing. It is recommended that application properties be derived from actual molded articles, whereas properties as molded could vary. These are not to be used as specifications. This data does not provide an implied conditional warranty.