



**TRIVALENCE**

# TriVEX™ 21E (U,R) ISO

Headquarters  
3001 Maxx Rd  
Evansville, IN 47711  
800.209.2517

[trivalencetechnologies.com](http://trivalencetechnologies.com)

## Polycarbonate

### General Information

#### Product Description

Economy Grade polycarbonate

#### FEATURES

- Medium Flow
- Good Strength

#### ADDITIONAL FORMULAS

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

#### COLOR

- Black Only

#### General

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

### ASTM / ISO Properties<sup>1</sup>

Physical	Nominal Value Unit	Test Method
Density	1.20 g/cm <sup>3</sup>	ISO 1183
Melt Flow Rate (300°C/1.2kg)	20 g/10min	ISO 1133
Molding Shrinkage - Flow (3.2mm)	0.5 to 0.7 %	TVT Internal
Outdoor Suitability (QUV) (12U Grades)	Pass	TVT Internal
Mechanical	Nominal Value Unit	Test Method
Tensile Strength	65 MPa	ISO 527
Tensile Elongation, yld	>5 %	ISO 527
Charpy Izod Impact	10 kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	138 °C	ISO 75
Deflection Temperature Under Load (1.8 MPa)	124 °C	ISO 75
Vicat Softening Temperature	145 °C	ISO 306
CLTE - Flow	3.8E-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	520 to 560 °F
Mold Temperature	140 to 180 °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.