

**TRIVALENCE**

TriVEX™ 14 (U,R) ISO

Headquarters
3001 Maxx Rd
Evansville, IN 47711
800.209.2517

trivalencetechnologies.com

Polycarbonate

General Information

Product Description

General purpose, low flow, high impact polycarbonate

FEATURES

- High Impact
- High Optical Quality
- Low Flow

ADDITIONAL FORMULAS

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

COLOR

- All
- Transparents

General

Typical Applications

-Appliance, electrical, lawn & garden, automotive, medical

Processing Method

-Injection

Form(s)

-Pellets

Availability

-North America, Europe, Asia, Latin America

ASTM / ISO Properties¹

| Physical | Nominal Value Unit | Test Method |
|--|------------------------|---------------------|
| Density | 1.20 g/cm ³ | ISO 1183 |
| Melt Flow Rate (300°C/1.2kg) | 6 g/10min | ISO 1133 |
| Molding Shrinkage - Flow (3.2mm) | 0.6 to 0.8 % | TVT Internal |
| Outdoor Suitability (QUV) (12U Grades) | Pass | TVT Internal |
| Mechanical | Nominal Value Unit | Test Method |
| Tensile Strength | 68 MPa | ISO 527 |
| Tensile Elongation, brk | >100 % | ISO 527 |
| Charpy Izod Impact | 85 kJ/m ² | 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) | 127 °C | ISO 75 |
| Vicat Softening Temperature | 145 °C | ISO 306 |
| 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 | 540 to 580 °F |
| Mold Temperature | 140 to 180 °F |

¹ 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.