



TRIVALENCE

TriVEX™ 32 (U, R, UR)

Polycarbonate

General Information

Product Description

General purpose, high flow, high impact polycarbonate

FEATURES

- High Impact
- High Optical Quality

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 | ASTM D792 |
| Melt Flow Rate (300°C/1.2kg) | 22 | g/10min | ASTM D1238 |
| 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, brk | 9700 | psi | ASTM D638 |
| Tensile Elongation | >120 | % | ASTM D638 |
| Flexural Modulus | 325000 | psi | ASTM D790 |
| Notched Izod Impact | 14 | ft-lbs/in | ASTM D256 |
| Rockwell Hardness | 118 | R-Scale | ASTM D785 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa) | 278 | °F | ASTM D648 |
| Deflection Temperature Under Load (1.8 MPa) | 270 | °F | ASTM D648 |
| Vicat Softening Temperature | 308 | °F | ASTM D1525 |
| RTI Elec | 176 | °F | UL 746 |
| RTI IMP | 176 | °F | UL 746 |
| RTI Str | 176 | °F | UL 746 |
| 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 |