



TRIVALENCE

TriVEX™ 23FR5 (14M), E494706 UL Pending

Polycarbonate

General Information

Product Description

UL certified flame resistant product is available in melt flow ranges of 8 - 24.

FEATURES

- Flame Resistant -Elevated RTI
- Great Impact
- UV Stabilized
- f1

ADDITIONAL FORMULAS

- Added Release
- Additional Melt Flows

COLOR

-All



Underwriters Laboratories

General

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

ASTM / ISO Properties¹

| Physical | Nominal Value Unit | Test Method |
|----------------------------------|---------------------------|--------------------|
| Density | 1.21 g/cm ³ | ASTM D792 |
| Melt Flow Rate (300°C/1.2kg) | 14 g/10min | ASTM D1238 |
| Molding Shrinkage - Flow (3.2mm) | 0.5 to 0.7 % | TVT Internal |
| Outdoor Suitability (QUV) | f1 | UL 746C Pending |

| Mechanical | Nominal Value Unit | Test Method |
|-----------------------|---------------------------|--------------------|
| Tensile Strength, brk | 9200 psi | ASTM D638 |
| Tensile Elongation | >100 % | ASTM D638 |
| Flexural Modulus | 320000 psi | ASTM D790 |
| Notched Izod Impact | 12 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 | 239 °F | UL 746B Pending |
| RTI IMP | 239 °F | UL 746B Pending |
| RTI Str | 239 °F | UL 746B Pending |
| CLTE - Flow | 3.8E-5 in/in/°F | ASTM E831 |

| Flammability | Nominal Value Unit | Test Method |
|---------------------|---------------------------|--------------------|
| 0.06 in | V0 | UL94 File E494706 |
| 0.10 in | V0, 5VA | UL94 File E494706 |

| Recommended Processing Guidance | Nominal Value Unit |
|--|---------------------------|
| 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 |