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# TriVEX™ 22FR0 (28M)

**Polycarbonate**

## General Information

### Product Description

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

| FEATURES | ADDITIONAL FORMULAS | COLOR |
|---|---|---|
| -Flame Resistant -UL746 f1 Rated | -Added Release | -All |
| -Great Impact | -Additional Melt Flows | |
| -UV Stabilized | | |

-UL approval allows for up to 95% recyclate in formulation, which can be customer specified

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 Properties[1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 1.21 | g/cm³ | ASTM D792 |
| Melt Flow Rate (300°C/1.2kg) | 28 | g/10min | ASTM D1238 |
| Molding Shrinkage - Flow (3.2mm) | 0.5 to 0.7 | % | TVT Internal |
| Outdoor Suitability (QUV) | f1 | | UL746 |
| **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 | |

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.