

**TRIVALENCE**

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# TriVEX™ 22FR0f1 (18M)

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

## Polycarbonate

### General Information

#### Product Description

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

#### FEATURES

- Flame Resistant
- Weatherable (f1)
- Great Impact
- Elevated RTI
- UV Stabilized
- Higher Flow

#### ADDITIONAL FORMULAS

- Added Release
- Additional Melt Flows

#### COLOR

- All

**PENDING APPROVAL:****Underwriters  
Laboratories**

#### General

- |                             |   |
|-----------------------------|---|
| <b>Typical Applications</b> | -Appliance, electrical, lawn & garden, automotive |
| <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	1.21 g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (300°C/1.2kg)	18 g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.5 to 0.7 %	TVT Internal
Outdoor Suitability (UV)	f1	UL 746C
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	266 °F	UL 746B
RTI IMP	257 °F	UL 746B
RTI Str	257 °F	UL 746B
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

- |                             |               |
|-----------------------------|---------------|
| 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.