



**TRIVALENCE**

**TriVEX™ 23FR5 (18M)**, 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 -High Flow
- 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 Properties<sup>1</sup>**

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
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 (QUV)	f1		UL 746C Pending

<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
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

<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
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

<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
0.06 in	V0		UL94 File E494706
0.10 in	V0, 5VA		UL94 File E494706

<b>Recommended Processing Guidance</b>	<b>Nominal Value</b>	<b>Unit</b>
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