



**TRIVALENCE**

# TriVEX™ 32FR2U

**Polycarbonate**

**General Information**

**Product Description**

UL 94V2, Polycarbonate, high flow, flame retardant, V2 rated, UV, release added, weatherable-f1.

**FEATURES**

- Flame Retardant -Highest Flow
- High Impact -f1 *Pending*
- UV Stabilized
- Weatherable

**ADDITIONAL FORMULAS**

- Added Release "R"

**COLOR**

- All

**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 Unit</b>	<b>Test Method</b>
Density	1.20 g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (300°C/1.2kg)	20 g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.5 to 0.7 %	TVT Internal
Outdoor Suitability (QUV)	f1	UL746C - Pending

<b>Mechanical</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Tensile Strength, brk	9800 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 Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (0.45 MPa)	278 °F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	265 °F	ASTM D648
Vicat Softening Temperature	308 °F	ASTM D1525
RTI Elec	230 °F	UL 746B (3.0mm) Pending
RTI IMP	221 °F	UL 746B (3.0mm) Pending
RTI Str	230 °F	UL 746B (3.0mm) Pending
CLTE - Flow	3.8E-5 in/in/°F	ASTM E831

<b>Flammability</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
0.06 in	V2	UL94 File E494706
0.12 in	V2	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