



TRIVALENCE

TriVEX™ 32FR2U

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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 Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	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
Mechanical	Nominal Value	Unit	Test Method
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
Thermal	Nominal Value	Unit	Test Method
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
Flammability	Nominal Value	Unit	Test Method
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

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.