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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.