



TRIVALENCE

TriVEX™ 23G30 (U,R)

Polycarbonate

General Information

Product Description

Glass fiber reinforced polycarbonate, impact modified

FEATURES

- 30% Glass Fiber Reinforced
- Great Strength -Good Impact
- Good Creep Resistance
- Medium Flow

ADDITIONAL FORMULAS

- Added Release "R"
- Added UV "U"

COLOR

- All

General

Typical Applications

-Appliance, electrical, lawn & garden, automotive, electronic

Processing Method

-Injection

Form(s)

-Pellets

Availability

-North America, Europe, Asia, Latin America

ASTM / ISO Properties¹

Physical

Nominal Value Unit

Test Method

Density	1.43 g/cm ³	ASTM D792
Melt Flow Rate (300°C/1.2kg)	14 g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.2 to 0.4 %	TVT Internal
Outdoor Suitability - QUV ("U" grades only)	Pass	QUV - TVT Internal

Mechanical

Nominal Value Unit

Test Method

Tensile Strength, yld	18,500 psi	ASTM D638
Tensile Elongation	>3 %	ASTM D638
Flexural Modulus	1100000 psi	ASTM D790
Notched Izod Impact	2.0 ft-lbs/in	ASTM D256
Rockwell Hardness	123 R-Scale	ASTM D785

Thermal

Nominal Value Unit

Test Method

Deflection Temperature Under Load (0.45 MPa)	302 °F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	289 °F	ASTM D648
Vicat Softening Temperature	308 °F	ASTM D1525
CLTE - Flow	1.7E-5 in/in/°F	ASTM E831

Flammability

Nominal Value Unit

Test Method

0.06 in	HB	UL94 TVT Internal
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Recommended Processing Guidance

Drying Temperature	230 to 260 °F
Drying Time	3 to 6 Hours
Suggested Max Moisture	0.02 %
Processing Melt Temperature	590 to 640 °F
Mold Temperature	175 to 230 °F