



TRIVALENCE

TriVEX™ 12G30 (U,R)

Polycarbonate

General Information

Product Description

Glass fiber reinforced polycarbonate

FEATURES

- 30% Glass Fiber Reinforced
- Good Strength
- Good Creep Resistance
- Low Flow

ADDITIONAL FORMULAS

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

COLOR

-All

General

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| Typical Applications | -Appliance, electrical, lawn & garden, automotive, electronic |
| Processing Method | -Injection |
| Form(s) | -Pellets |
| Availability | -North America, Europe, Asia, Latin America |

ASTM / ISO Properties ¹

Physical	Nominal Value Unit	Test Method
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Density	1.43 g/cm ³	ASTM D792
Melt Flow Rate (300°C/1.2kg)	8 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
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Tensile Strength, yld	17,000 psi	ASTM D638
Tensile Elongation	>3 %	ASTM D638
Flexural Modulus	1000000 psi	ASTM D790
Notched Izod Impact	1.5 ft-lbs/in	ASTM D256
Rockwell Hardness	123 R-Scale	ASTM D785

Thermal	Nominal Value Unit	Test Method
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Deflection Temperature Under Load (0.45 MPa)	285 °F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	275 °F	ASTM D648
Vicat Softening Temperature	290 °F	ASTM D1525
CLTE - Flow	1.7E-5 in/in/°F	ASTM E831

Flammability	Nominal Value Unit	Test Method
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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	560 to 600 °F
Mold Temperature	175 to 230 °F