



**TRIVALENCE**

# TriVEX™ 21G20 (U,R)

**Polycarbonate**

General Information
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Product Description
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Glass fiber reinforced polycarbonate

**FEATURES**

- 20% Glass Fiber Reinforced
- Great Strength
- Good Creep Resistance
- Medium Flow

**ADDITIONAL FORMULAS**

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

**COLOR**

-All

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

ASTM / ISO Properties <sup>1</sup>
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Physical	Nominal Value	Unit	Test Method
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Density	1.35	g/cm <sup>3</sup>	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
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Tensile Strength, yld	15,800	psi	ASTM D638
Tensile Elongation	>5	%	ASTM D638
Flexural Modulus	790000	psi	ASTM D790
Notched Izod Impact	1.9	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)	295	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	280	°F	ASTM D648
Vicat Softening Temperature	318	°F	ASTM D1525
CLTE - Flow	1.6E-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
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Drying Temperature	230 to 250	°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