



**TRIVALENCE**

# TriVAN™ 12G15C (U, R, UR)

Acrylonitrile Butadiene Styrene Glass Fiber Reinforced

**General Information**

**Product Description**

Acrylonitrile Butadiene Styrene 15% Glass Fiber reinforced, Impact Modified

**FEATURES**

- Good Impact
- Medium Flow
- Good Stiffness

**ADDITIONAL FORMULAS**

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

**COLOR**

- All
- Opaque

**General**

- |                             |                                       |
|-----------------------------|---------------------------------------|
| <b>Typical Applications</b> | -Appliance, construction              |
| <b>Processing Method</b>    | -Injection/Extrusion                  |
| <b>Form(s)</b>              | -Pellets                              |
| <b>Availability</b>         | -North America, Europe, Latin America |

**ASTM / ISO Properties<sup>1</sup>**

<b>Physical</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Density	1.14 g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (220°C/10.0 kg)	10 g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.1 to 0.3 %	TVT Internal
Outdoor Suitability (QUV) ("U" Grades)	Pass	TVT Internal
<b>Mechanical</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Tensile Strength, yld	9,500 psi	ASTM D638
Tensile Elongation	>2.5 %	ASTM D638
Flexural Modulus	660000 psi	ASTM D790
Notched Izod Impact	1.2 ft-lbs/in	ASTM D256
<b>Thermal</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (0.45 MPa)	218 °F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	212 °F	ASTM D648
Vicat Softening Temperature	218 °F	ASTM D1525
<b>Flammability</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
0.06 in	HB	UL94 - TVT Internal

**Recommended Processing Guidance**

- |                             |               |
|-----------------------------|---------------|
| Drying Temperature          | 175 to 200 °F |
| Drying Time                 | 3 to 5 Hours  |
| Suggested Max Moisture      | 0.04 %        |
| Processing Melt Temperature | 480 to 530 °F |
| Mold Temperature            | 110 to 175 °F |