



TRIVALENCE

TriVAN™ 12G16 (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

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

ASTM / ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ASTM D792
Melt Flow Rate (220°C/10.0 kg)	8	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.1 to 0.3	%	TVT Internal
Outdoor Suitability (QUV) ("U" Grades)	Pass		TVT Internal
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength, yld	100,000	psi	ASTM D638
Tensile Elongation	>2.5	%	ASTM D638
Flexural Modulus	720000	psi	ASTM D790
Notched Izod Impact	1.2	ft-lbs/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
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
Flammability	Nominal Value	Unit	Test Method
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