



TRIVALENCE

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TriVAN™ 12G16 (U, R, UR)

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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

¹ Note: The values listed on this guide are typical values based on general molding conditions and used solely for the purpose of general material processing. It is recommended that application properties be derived from actual molded articles, whereas properties as molded could vary. These are not to be used as specifications. This data does not provide an implied conditional warranty.