



TRIVALENCE

TriVAN™ 12G20 (U, R, UR)

Acrylonitrile Butadiene Styrene Glass Fiber Reinforced

General Information

Product Description

Acrylonitrile Butadiene Styrene 20% 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	1.17 g/cm ³	ASTM D792
Melt Flow Rate (220°C/10.0 g)	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
Mechanical	Nominal Value Unit	Test Method
Tensile Strength, yld	12000 psi	ASTM D638
Tensile Elongation	>2.5 %	ASTM D638
Flexural Modulus	880000 psi	ASTM D790
Notched Izod Impact	1.5 ft-lbs/in	ASTM D256
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	225 °F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	220 °F	ASTM D648
Vicat Softening Temperature	225 °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 |