



TRIVALENCE

Headquarters
3001 Maxx Road
Evansville, IN 47711
800.209.2517

TriVAN™ 11G10FR0AS (U, R, UR)

trivalencetechnologies.com

Acrylonitrile Butadiene Styrene

General Information

Product Description

Acrylonitrile Butadiene Styrene 10% Glass Fiber Filled

FEATURES

- Antistatic Added
- Flame Retardant
- 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	1.31	g/cm ³	ASTM D792
Melt Flow Rate (230°C/3.8kg)	3	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.8 to 1.0	%	TVT Internal
Outdoor Suitability (QUV) ("U" Grades)	Pass		TVT Internal

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength, yld	6000	psi	ASTM D638
Tensile Elongation	>1.5	%	ASTM D638
Flexural Modulus	500000	psi	ASTM D790
Notched Izod Impact	0.6	ft-lbs/in	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	200	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	190	°F	ASTM D648
Vicat Softening Temperature	195	°F	ASTM D1525

Flammability	Nominal Value	Unit	Test Method
0.06 in	V0		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 | 420 to 480 °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.