



**TRIVALENCE**

# TriVAN™ 11G10FR0AS (U, R, UR)

## Acrylonitrile Butadiene Styrene

General Information		
<b>Product Description</b> Acrylonitrile Butadiene Styrene 10% Glass Fiber Filled		
<b>FEATURES</b> -Antistatic Added -Flame Retardant -Good Stiffness	<b>ADDITIONAL FORMULAS</b> -Added Release "R" -Additional UV "U"	<b>COLOR</b> -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</b>	<b>Unit</b>	<b>Test Method</b>
Density	1.31	g/cm <sup>3</sup>	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
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
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
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
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
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
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