



**TRIVALENCE**

# TriVAN™ 22FR0 (U, R, UR)

Acrylonitrile Butadiene Styrene

**General Information**

**Product Description**

High flow ABS, flame retardant

**FEATURES**

- Flame Retardant
- High Flow

**ADDITIONAL FORMULAS**

- Added Release "R"
- Additional UV "U"

**COLOR**

- All
- Opaque

**General**

- Typical Applications** -Appliance, electrical, lawn & garden, automotive, medical, construction
- Processing Method** -Injection/Extrusion
- Form(s)** -Pellets
- Availability** -North America, Europe, Latin America

**ASTM / ISO Properties<sup>1</sup>**

<b>Physical</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Density	1.19 g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (220°C/10.0kg)	20 g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.4 to 0.7 %	TVT Internal
Outdoor Suitability (QUV) ("U" Grades)	Pass	TVT Internal
<b>Mechanical</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Tensile Strength, yld	5000 psi	ASTM D638
Tensile Elongation	>18 %	ASTM D638
Flexural Modulus	330000 psi	ASTM D790
Notched Izod Impact	2 ft-lbs/in	ASTM D256
Rockwell Hardness	104 R-Scale	ASTM D785
<b>Thermal</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (0.45 MPa)	180 °F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	158 °F	ASTM D648
Vicat Softening Temperature	175 °F	ASTM D1525
<b>Flammability</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
0.125 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 480 to 530 °F
- Mold Temperature 110 to 175 °F