



**TRIVALENCE**

# TriVAN™ 22S (UR)

Acrylonitrile Styrene Acrylate

**General Information**

**Product Description**

Medium flow ASA, general purpose

**FEATURES**

-Great Weatherability  
-Medium Flow

**ADDITIONAL FORMULAS**

-Added Release "R"

**COLOR**

-All  
-Opaque

**General**

<b>Typical Applications</b>	-Lawn & garden, transportation, construction, outdoor
<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>**

Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm <sup>3</sup>	ISO 1183
Melt Flow Rate (220°C/10.0kg)	12	g/10min	ISO 1133
Molding Shrinkage - Flow (3.2mm)	0.4 to 0.7	%	ISO 294
Outdoor Suitability (QUV)	Pass		TVT Internal
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength, yld	45	MPa	ISO 527
Tensile Elongation	>6	%	ISO 527
Flexural Modulus	2200	MPa	ISO 178
Charpy Impact (73F)	15	kJ/m <sup>2</sup>	ISO 179A
Rockwell Hardness	100	R-Scale	ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	101	°C	ISO 75
Deflection Temperature Under Load (1.8 MPa)	97	°C	ISO 75
Vicat Softening Temperature	105	°C	ISO 75
CLTE - Flow	8.5E-5	cm/cm/°C	ISO 11359
Flammability	Nominal Value	Unit	Test Method
0.06 in	HB		UL94 - TVT Internal

**Recommended Processing Guidance**

Drying Temperature	70 to 90 °C
Drying Time	3 to 5 Hours
Suggested Max Moisture	0.02 %
Processing Melt Temperature	220 to 270 °C
Mold Temperature	40 to 80 °C