



**TRIVALENCE**

# TriVAN™ 23P (U, R, UR)

Acrylonitrile Butadiene Styrene

## General Information

### Product Description

Medium flow ABS used in most painting and plating applications.

#### FEATURES

- Great Impact -Plateable
- Medium Flow
- Weldable
- Paintable

#### ADDITIONAL FORMULAS

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

#### COLOR

- All
- Opaque

### General

- |                             |   |
|-----------------------------|---|
| <b>Typical Applications</b> | -Appliance, electrical, lawn & garden, automotive, medical, lighting, rails |
| <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	1.04	g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (230°C/3.8kg)	5	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.4 to 0.6	%	TVT Internal
Outdoor Suitability (QUV) (23PU Grades)	Pass		TVT Internal
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength, yld	6800	psi	ASTM D638
Tensile Elongation	>18	%	ASTM D638
Flexural Modulus	350000	psi	ASTM D790
Notched Izod Impact	4	ft-lbs/in	ASTM D256
Rockwell Hardness	106	R-Scale	ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	188	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	168	°F	ASTM D648
Vicat Softening Temperature	206	°F	ASTM D1525
CLTE - Flow	3.3E-5	in/in/°F	ASTM E831
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 |