



TRIVALENCE

TriVAN™ 12P (U, R, UR)

Acrylonitrile Butadiene Styrene

General Information

Product Description

Low flow ABS used in most painting and plating applications.

FEATURES

- Great Impact -Plateable
- Low Flow
- Weldable
- Paintable

ADDITIONAL FORMULAS

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

COLOR

- All
- Opaque

General

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

ASTM / ISO Properties¹

Physical	Nominal Value Unit	Test Method
Density	1.04 g/cm ³	ASTM D792
Melt Flow Rate (230°C/3.8kg)	2 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	345000 psi	ASTM D790
Notched Izod Impact	4.2 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