



TRIVALENCE

TriVAN™ 21 (U, R)

Acrylonitrile Butadiene Styrene

General Information

Product Description

Medium flow ABS, economy grade

FEATURES

- Good Impact
- Medium Flow
- Economy Grade

ADDITIONAL FORMULAS

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

COLOR

- All
- Opaque

General

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

ASTM / ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	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) ("U" Grades)	Pass		TVT Internal
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength, yld	6000	psi	ASTM D638
Flexural Modulus	280,000	psi	ASTM D790
Notched Izod Impact	3.5	ft-lbs/in	ASTM D256
Rockwell Hardness	112	R-Scale	ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	185	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	170	°F	ASTM D648
Vicat Softening Temperature	209	°F	ASTM D1525
CLTE - Flow	4.5E-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