Headquarters
3001 Maxx Rd
Evansville, IN 47711
800.209.2517

TriVAN™ 21E (U, R, UR) ISO

trivalencetechnologies.com

Acrylonitrile Butadiene Styrene

General Information

Product Description

Medium flow ABS, utility grade

FEATURES	ADDITIONAL FORMULAS	COLOR
-Good Impact	-Added Release "R"	-All
-Medium Flow	-Additional UV "U"	-Opaque
-Utility Grade		

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 Properties[1]

Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm³	ISO 1183
Melt Flow Rate (230°C/3.8 kg)	5	g/10min	ISO 1133
Molding Shrinkage - Flow (3.2mm)	0.4 to 0.7	%	TVT Internal
Outdoor Suitability (QUV) (23PU Grades)	Pass		TVT Internal
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength, yld	38	MPa	ISO 527
Tensile Elongation	>15	%	ISO 527
Flexural Modulus	2100	MPa	ISO 178
Charpy notched Impact	18.0	kj/m²	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa)	85	°C	ISO 75
Deflection Temperature Under Load (1.8 MPa)	76	°C	ISO 75
Vicat Softening Temperature	84	°C	ISO 306
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

[1] Note: The values listed on this guide are typical values based on general molding conditions and used solely for the purpose of general material processing. It is recommended that application properties be derived from actual molded articles, whereas properties as molded could vary. These are not to be used as specifications. This data does not provide an implied conditional warranty.