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TriVAN™ 13E (U, R, UR)

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Acrylonitrile Butadiene Styrene

General Information

Product Description

Low flow, high impact grade ABS used for extrusion and blow molding applications

FEATURES	ADDITIONAL FORMULAS	COLOR
-High Impact	-Added Release "R"	-All
-Low Flow	-Additional UV "U"	-Opaque

General

Typical Applications	-Appliance, construction, sheet.
Processing Method	-Injection/Extrusion/Blow Molding
Form(s)	-Pellets
Availability	-North America, Europe, Latin America

ASTM / ISO Properties[1]

Physical	Nominal Value	Unit	Test Method
Density	1.04	g/cm³	ASTM D792
Melt Flow Rate (230°C/3.8kg)	3	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	5600	psi	ASTM D638
Tensile Elongation	>30	%	ASTM D638
Flexural Modulus	320000	psi	ASTM D790
Notched Izod Impact	5	ft-lbs/in	ASTM D256
Rockwell Hardness	109	R-Scale	ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa)	195	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	180	°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

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.