



**TRIVALENCE**

# TriVAN™ 12LG (U, R, UR)

Acrylonitrile Butadiene Styrene

**General Information**

**Product Description**

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

**FEATURES**

- High Impact
- Low Flow
- Low Gloss

**ADDITIONAL FORMULAS**

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

**COLOR**

- All
- Opaque

**General**

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

**ASTM / ISO Properties<sup>1</sup>**

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density	1.04	g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (230°C/3.8kg)	2	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.5 to 0.7	%	TVT Internal
Outdoor Suitability (QUV) ("U" Grades)	Pass		TVT Internal
<b>Mechanical</b>			
Tensile Strength, yld	5800	psi	ASTM D638
Tensile Elongation	>35	%	ASTM D638
Flexural Modulus	335000	psi	ASTM D790
Notched Izod Impact	7	ft-lbs/in	ASTM D256
Rockwell Hardness	112	R-Scale	ASTM D785
<b>Thermal</b>			
Deflection Temperature Under Load (0.45 MPa)	199	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	175	°F	ASTM D648
Vicat Softening Temperature	209	°F	ASTM D1525
CLTE - Flow	4.5E-5	in/in/°F	ASTM E831
<b>Flammability</b>			
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 |