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**TRIVALENCE**

# TriVOL 13 (U,R,N)

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## Polypropylene Copolymer

### General Information

#### Product Description

General purpose, impact modified, copolymer PP.

#### FEATURES

- Great Impact
- Cold Temperature Ductility
- Lower Flow

#### ADDITIONAL FORMULAS

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

#### COLOR

- All
- Opaque

### General

#### Typical Applications

-Automotive, sporting goods, packaging, consumer goods.

#### Processing Method

-Injection/Extrusion

#### Form(s)

-Pellets

#### Availability

-North America, Europe, Asia

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

Physical	Nominal Value	Unit	Test Method
Density	0.89	g/cm <sup>3</sup>	ASTM D792
Melt Flow Rate (230°C/2.16kg)	7	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	1.3 to 1.6	%	TVT Internal
Outdoor Suitability (QUV) ("U" Grades)	Pass		TVT Internal
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength, yld	3000	psi	ASTM D638
Tensile Elongation, yld	>7	%	ASTM D638
Flexural Modulus	140000	psi	ASTM D790
Notched Izod Impact	7	ft-lbs/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	170	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
0.06 in	HB		UL94 - TVT Internal
Recommended Processing Guidance	Nominal Value	Unit	
Drying Temperature	150 to 175	°F	
Drying Time	2 to 4	Hours	
Suggested Max Moisture	0.02	%	
Processing Melt Temperature	410 to 470	°F	
Mold Temperature	80 to 140	°F	

<sup>1</sup> 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.