



TRIVALENCE

TriVOL 12 (U,R,N)

Polypropylene Copolymer

Product Description	General Information
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General purpose, impact modified, copolymer PP.

FEATURES

- Good Impact Copolymer
- Cold Temperature Ductility
- Lower Flow

ADDITIONAL FORMULAS

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

COLOR

- All
- Opaque

General

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| Typical Applications | -Automotive, sporting goods, packaging, consumer goods. |
| Processing Method | -Injection/Extrusion |
| Form(s) | -Pellets |
| Availability | -North America, Europe, Asia |

ASTM / ISO Properties ¹			
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Physical	Nominal Value	Unit	Test Method
Density	0.92	g/cm ³	ASTM D792
Melt Flow Rate (230°C/2.16kg)	10	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	1.2 to 1.4	%	TVT Internal
Outdoor Suitability (QUV) ("U" Grades)	Pass		TVT Internal

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength, yld	4200	psi	ASTM D638
Tensile Elongation, yld	>5	%	ASTM D638
Flexural Modulus	180000	psi	ASTM D790
Notched Izod Impact	1.8	ft-lbs/in	ASTM D256
Hardness, Shore D	80	D-Scale	ASTM D2240

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	190	°F	ASTM D648

Flammability	Nominal Value	Unit	Test Method
0.06 in	HB		UL94 - TVT Internal

Recommended Processing Guidance	Nominal Value	Unit
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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