



TRIVALENCE

TriVOL 31 (U,R,N)

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Polypropylene Homopolymer

General Information

Product Description

General purpose, Homopolymer PP.

FEATURES

- Good Strength
- Good Stiffness
- High 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

Form(s)

-Pellets

Availability

-North America, Europe, Asia

ASTM / ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	0.91	g/cm ³	ASTM D792
Melt Flow Rate (230°C/2.16kg)	30	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	1.5 to 1.8	%	TVT Internal
Outdoor Suitability (QUV) ("U" Grades)	Pass		TVT Internal

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength, yld	4900	psi	ASTM D638
Tensile Elongation, yld	>5	%	ASTM D638
Flexural Modulus	225,000	psi	ASTM D790
Notched Izod Impact	0.7	ft-lbs/in	ASTM D256
Hardness, Shore D	65	D-Scale	ASTM D2240

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	219	°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

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.