



TRIVALENCE

TriVOL 22 (U,R,N)

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Polypropylene Copolymer

General Information

Product Description

General purpose, impact modified, copolymer PP.

FEATURES

-Impact Copolymer
-Cold Temperature Ductility
-Medium 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 | 0.92 | g/cm ³ | ASTM D792 |
| Melt Flow Rate (230°C/2.16kg) | 20 | g/10min | ASTM D1238 |
| Molding Shrinkage - Flow (3.2mm) | 1.2 to 1.5 | % | TVT Internal |
| Outdoor Suitability (QUV) ("U" Grades) | Pass | | TVT Internal |

Mechanical

| | Nominal Value | Unit | Test Method |
|-------------------------|---------------|-----------|-------------|
| Tensile Strength, yld | 3800 | psi | ASTM D638 |
| Tensile Elongation, brk | >200 | % | ASTM D638 |
| Flexural Modulus | 160000 | 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

| | |
|-----------------------------|---------------|
| 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 |

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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.