



**TRIVALENCE**

# TriVOL 22 (U,R,N)

**Polypropylene Copolymer**

| General Information |
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| Product Description |
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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 |
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|-----------------------------|---|
| <b>Typical Applications</b> | -Automotive, sporting goods, packaging, consumer goods. |
| <b>Processing Method</b>    | -Injection  |
| <b>Form(s)</b>              | -Pellets  |
| <b>Availability</b>         | -North America, Europe, Asia                            |

| ASTM / ISO Properties <sup>1</sup> |
|------------------------------------|
|------------------------------------|

| Physical                                     | Nominal Value | Unit              | Test Method         |
|--|---------------|-------------------|---------------------|
| Density                                      | 0.92          | g/cm <sup>3</sup> | 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 |
|---------------------------------|
|---------------------------------|

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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  |