



TRIVALENCE

TriVOL 11C40 (U,R)

Polypropylene

General Information

Product Description

Homopolymer PP, calcium carbonate reinforced. Melt flow ranges (4-12)

FEATURES

-RoHS/REACH Compliant
-Homopolymer
-40% Calcium Carbonate Reinforced

ADDITIONAL FORMULAS

-Added Release "R"
-Added UV "U"

COLOR

-All

General

Typical Applications -Appliance, electrical, lawn & garden, automotive, packaging, industrial
Processing Method -Injection
Form(s) -Pellets
Availability -North America, Europe, Asia, Latin America

ASTM / ISO Properties¹

| Physical | Nominal Value | Unit | Test Method |
|--|----------------------|-------------------|--------------------|
| Density | 1.21 | g/cm ³ | ASTM D792 |
| Melt Flow Rate (230°C/2.16kg) | 8 | g/10min | ASTM D1238 |
| Outdoor Suitability (QUV) ("U" grades) | Pass | | TVT Internal |

| Mechanical | Nominal Value | Unit | Test Method |
|---------------------|----------------------|-------------|--------------------|
| Tensile Strength | 5,000 | psi | ASTM D638 |
| Tensile Elongation | >8 | % | ASTM D638 |
| Flexural Modulus | 460,000 | psi | ASTM D790 |
| Notched Izod Impact | 0.8 | ft-lbs/in | ASTM D256 |

| Thermal | Nominal Value | Unit | Test Method |
|--|----------------------|-------------|--------------------|
| Deflection Temperature Under Load (0.45 MPa) | 265 | °F | ASTM D648 |

| Flammability | Nominal Value | Unit | Test Method |
|---------------------|----------------------|-------------|--------------------|
| 0.06 in | HB | | UL94 File E494706 |

Recommended Processing Guidance

| | Nominal Value | Unit |
|-----------------------------|----------------------|-------------|
| Drying Temperature | 160 to 200 | °F |
| Drying Time | 1 to 3 | Hours |
| Suggested Max Moisture | 0.05 | % |
| Processing Melt Temperature | 410 to 480 | °F |
| Mold Temperature | 80 to 140 | °F |