



TRIVALENCE

TriVALOY 21 (U, R)

Polycarbonate + ABS

General Information

Product Description

Polycarbonate + ABS with good impact and high flow.

FEATURES

- High Flow
- Good Impact
- Chemical Resistant
- ROHS/REACH Compliant

ADDITIONAL FORMULAS

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

COLOR

- All
- Opaque/Translucent

General

Typical Applications

-Appliance, lawn & garden, automotive, electronics, medical devices, spools, housings

Processing Method

-Injection

Form(s)

-Pellets

Availability

-North America, Europe, Asia, Latin America

ASTM / ISO Properties¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-------------------|-------------------|
| Density | 1.15 | g/cm ³ | ASTM D792 |
| Melt Flow Rate (230°C/3.8kg) | 5 | g/10min | ASTM D1238 |
| Molding Shrinkage - Flow (3.2mm) | 0.5 to 0.7 | % | TVT Internal |
| Outdoor Suitability (QUV) | Pass | | TVT Internal |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength, yld | 7200 | psi | ASTM D638 |
| Tensile Elongation, brk | 50 | % | ASTM D638 |
| Flexural Modulus | 310000 | psi | ASTM D790 |
| Gardner Impact | 320 | in-lbs | ASTM D5420 |
| Notched Izod Impact | 6 | ft-lbs/in | ASTM D256 |
| Rockwell Hardness | 117 | R-Scale | ASTM D785 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa) | 230 | °F | ASTM D648 |
| Deflection Temperature Under Load (1.8 MPa) | 210 | °F | ASTM D648 |
| Vicat Softening Temperature | 230 | °F | ASTM D1525 |
| CLTE - Flow | 4.4E-5 | in/in/°F | ASTM E831 |
| Flammability | Nominal Value | Unit | Test Method |
| 0.06 in | HB | | UL94 TVT Internal |
| Recommended Processing Guidance | | | |
| Drying Temperature | 180 to 215 | °F | |
| Drying Time | 2 to 4 | Hours | |
| Suggested Max Moisture | 0.02 | % | |
| Processing Melt Temperature | 480 to 540 | °F | |
| Mold Temperature | 135 to 185 | °F | |