



TRIVALENCE

TriVAN™ 13B (U, R, UR)

Acrylonitrile Butadiene Styrene + PBT

General Information

Product Description

Low flow, high impact grade ABS + PBT Blend

FEATURES

- High Impact
- Low Flow
- Chemical Resistant

ADDITIONAL FORMULAS

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

COLOR

- All
- Opaque

General

| | |
|-----------------------------|---------------------------------------|
| Typical Applications | -Appliance, construction, sheet. |
| Processing Method | -Injection/Extrusion/Blow Molding |
| Form(s) | -Pellets |
| Availability | -North America, Europe, Latin America |

ASTM / ISO Properties¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-------------------|---------------------|
| Density | 1.15 | g/cm ³ | ASTM D792 |
| Melt Flow Rate (250°C/5.0kg) | 8 | g/10min | ASTM D1238 |
| Molding Shrinkage - Flow (3.2mm) | 0.7 to 1.0 | % | TVT Internal |
| Outdoor Suitability (QUV) ("U" Grades) | Pass | | TVT Internal |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength, yld | 7300 | psi | ASTM D638 |
| Tensile Elongation | >50 | % | ASTM D638 |
| Flexural Modulus | 320000 | psi | ASTM D790 |
| Notched Izod Impact | 9.0 | ft-lbs/in | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa) | 210 | °F | ASTM D648 |
| Deflection Temperature Under Load (1.8 MPa) | 188 | °F | ASTM D648 |
| Flammability | Nominal Value | Unit | Test Method |
| 0.06 in | HB | | UL94 - TVT Internal |

Recommended Processing Guidance

| | |
|-----------------------------|---------------|
| Drying Temperature | 175 to 200 °F |
| Drying Time | 3 to 5 Hours |
| Suggested Max Moisture | 0.04 % |
| Processing Melt Temperature | 480 to 530 °F |
| Mold Temperature | 110 to 175 °F |