



TRIVALENCE

TriVAN 32 (U, R, UR)

Acrylonitrile Butadiene Styrene

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General Information

Product Description

High flow ABS, good impact

FEATURES

- Good Impact
- High Flow

ADDITIONAL FORMULAS

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

COLOR

- All
- Opaque

General

Typical Applications

-Appliance, electrical, lawn & garden, automotive, medical, construction

Processing Method

-Injection/Extrusion

Form(s)

-Pellets

Availability

-North America, Europe, Latin America

ASTM / ISO Properties¹

Physical

| | Nominal Value | Unit | Test Method |
|--|---------------|-------------------|--------------|
| Density | 1.04 | g/cm ³ | ASTM D792 |
| Melt Flow Rate (230°C/3.8kg) | 6.5 | g/10min | ASTM D1238 |
| Molding Shrinkage - Flow (3.2mm) | 0.4 to 0.6 | % | TVT Internal |
| Outdoor Suitability (QUV) ("U" Grades) | Pass | | TVT Internal |

Mechanical

| | Nominal Value | Unit | Test Method |
|-----------------------|---------------|-----------|-------------|
| Tensile Strength, yld | 6800 | psi | ASTM D638 |
| Tensile Elongation | >18 | % | ASTM D638 |
| Flexural Modulus | 330000 | psi | ASTM D790 |
| Notched Izod Impact | 3.5 | ft-lbs/in | ASTM D256 |
| Rockwell Hardness | 112 | R-Scale | ASTM D785 |

Thermal

| | Nominal Value | Unit | Test Method |
|--|---------------|----------|-------------|
| Deflection Temperature Under Load (0.45 MPa) | 199 | °F | ASTM D648 |
| Deflection Temperature Under Load (1.8 MPa) | 175 | °F | ASTM D648 |
| Vicat Softening Temperature | 209 | °F | ASTM D1525 |
| CLTE - Flow | 4.5E-5 | in/in/°F | ASTM E831 |

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 |

¹ 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.