



TRIVALENCE

TriVAN 21SU (R)

Acrylonitrile Styrene Acrylate

Headquarters
3001 Maxx Road
Evansville, IN 47711
800.209.2517

trivalencetechnologies.com

General Information

Product Description

Medium flow ASA, general purpose

FEATURES

-Great Weatherability
-Medium Flow

ADDITIONAL FORMULAS

-Added Release "R"

COLOR

-All
-Opaque

General

Typical Applications

-Lawn & garden, transportation, construction, outdoor

Processing Method

-Injection/Extrusion

Form(s)

-Pellets

Availability

-North America, Europe, Latin America

ASTM / ISO Properties¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-------------------|---------------------|
| Density | 1.06 | g/cm ³ | ISO 1183 |
| Melt Flow Rate (220°C/10.0kg) | 14 | g/10min | ISO 1133 |
| Molding Shrinkage - Flow (3.2mm) | 0.4 to 0.7 | % | ISO 294 |
| Outdoor Suitability (QUV) | Pass | | TVT Internal |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength, yld | 45 | MPa | ISO 527 |
| Tensile Elongation | >4 | % | ISO 527 |
| Flexural Modulus | 2200 | MPa | ISO 178 |
| Charpy Impact (73F) | 14 | kJ/m ² | ISO 179A |
| Rockwell Hardness | 100 | R-Scale | ASTM D785 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa) | 105 | °C | ISO 75 |
| Deflection Temperature Under Load (1.8 MPa) | 101 | °C | ISO 75 |
| Vicat Softening Temperature | 108 | °C | ISO 75 |
| CLTE - Flow | 8.5E-5 | cm/cm/°C | ISO 11359 |
| Flammability | Nominal Value | Unit | Test Method |
| 0.06 in | HB | | UL94 - TVT Internal |

Recommended Processing Guidance

| | |
|-----------------------------|---------------|
| Drying Temperature | 70 to 90 °C |
| Drying Time | 3 to 5 Hours |
| Suggested Max Moisture | 0.02 % |
| Processing Melt Temperature | 220 to 270 °C |
| Mold Temperature | 40 to 80 °C |

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.