



**TRIVALENCE**

# TriVAN™ 31SU\_

Acrylonitrile Styrene Acrylate - ASA

**General Information**

**Product Description**

High flow, ASA

**FEATURES**

- Good Impact
- High Flow
- Weatherable

**ADDITIONAL FORMULAS**

- Added Release "R"

**COLOR**

- All
- Opaque

**General**

- Typical Applications** -Appliance, construction, transportation
- Processing Method** -Injection/Extrusion
- Form(s)** -Pellets
- Availability** -North America, Europe, Latin America

**ASTM / ISO Properties<sup>1</sup>**

| <b>Physical</b>                              | <b>Nominal Value Unit</b> | <b>Test Method</b>  |
|--|---------------------------|---------------------|
| Density                                      | 1.06 g/cm <sup>3</sup>    | ASTM D792           |
| Melt Flow Rate (220°C/10.0kg)                | 20 g/10min                | ASTM D1238          |
| Molding Shrinkage - Flow (3.2mm)             | 0.5 to 0.7 %              | TVT Internal        |
| Outdoor Suitability (QUV) ("U" Grades)       | Pass                      | TVT Internal        |
| <b>Mechanical</b>                            | <b>Nominal Value Unit</b> | <b>Test Method</b>  |
| Tensile Strength, yld                        | 6800 psi                  | ASTM D638           |
| Tensile Elongation                           | >20 %                     | ASTM D638           |
| Flexural Modulus                             | 300000 psi                | ASTM D790           |
| Notched Izod Impact                          | 1.5 ft-lbs/in             | ASTM D256           |
| Rockwell Hardness                            | 88 R-Scale                | ASTM D785           |
| <b>Thermal</b>                               | <b>Nominal Value Unit</b> | <b>Test Method</b>  |
| Deflection Temperature Under Load (0.45 MPa) | 220 °F                    | ASTM D648           |
| Deflection Temperature Under Load (1.8 MPa)  | 190 °F                    | ASTM D648           |
| Vicat Softening Temperature                  | 210 °F                    | ASTM D1525          |
| CLTE - Flow                                  | 4.7E-5 in/in/°F           | ASTM E831           |
| <b>Flammability</b>                          | <b>Nominal Value Unit</b> | <b>Test Method</b>  |
| 0.06 in                                      | HB                        | UL94 - TVT Internal |

**Recommended Processing Guidance**

- Drying Temperature 160 to 180 °F
- Drying Time 3 to 5 Hours
- Suggested Max Moisture 0.02 %
- Processing Melt Temperature 480 to 530 °F
- Mold Temperature 110 to 175 °F