



TRIVALENCE

TriVAN™ 22P (U, R, UR) ISO

Acrylonitrile Butadiene Styrene

General Information

Product Description

Medium flow ABS used in most painting and plating applications.

FEATURES

- Good Impact -Plateable
- Medium Flow
- Weldable
- Paintable

ADDITIONAL FORMULAS

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

COLOR

- All
- Opaque

General

- | | |
|-----------------------------|---|
| Typical Applications | -Appliance, electrical, lawn & garden, automotive, medical, lighting, rails |
| Processing Method | -Injection/Extrusion |
| Form(s) | -Pellets |
| Availability | -North America, Europe, Latin America |

ASTM / ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Melt Flow Rate (220°C/10.0 kg)	25	g/10min	ISO 1133
Molding Shrinkage - Flow (3.2mm)	0.4 to 0.7	%	TVT Internal
Outdoor Suitability (QUV) (23PU Grades)	Pass		TVT Internal
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength, yld	40	MPa	ISO 527
Tensile Elongation	>15	%	ISO 527
Flexural Modulus	2100	MPa	ISO 178
Charpy notched Impact	24.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	96	°C	ISO 75
Deflection Temperature Under Load (1.8 MPa)	94	°C	ISO 75
Vicat Softening Temperature	95	°C	ISO 306
Flammability	Nominal Value	Unit	Test Method
0.06 in	HB		UL94 - TVT Internal

Recommended Processing Guidance

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|-----------------------------|---------------|
| 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 |