



TRIVALENCE

TriLON™ 12M2 (U,L,HS,N)

Headquarters
3001 Maxx Rd
Evansville, IN 47711
800.209.2517

trivalencetechnologies.com

Polyamide 12

General Information

Product Description

Nylon 12 Unfilled

FEATURES

-MoS2 Filled -Oil/Solvent Resistant
-Fast Cyling -High Rigidity
-Excellent Chemical Resistance
-Gasoline Resistant

ADDITIONAL FORMULAS

-Added Lubricant "L"
-Additional UV "U"
-Additonal Heat Stabilizers "HS"
-Nucleated "N"

COLOR

- Grey/Black

General

Typical Applications

-Appliance, automotive, general, pumps, impellers, housings

Processing Method

-Injection

Form(s)

-Pellets

Compliance

-RoHS Compliant - TVT

Availability

-North America, Europe, Latin America

ASTM / ISO Properties¹

Physical

Nominal Value Unit

Test Method

Density 1.02 g/cm³ ASTM D792
Molding Shrinkage - Flow (3.2mm) 1.2 to 1.6 % TVT Internal
Outdoor Suitability (QUV) ("U" Grades) Pass TVT Internal

Mechanical

Nominal Value Unit

Test Method

Tensile Strength, brk 7,200 psi ASTM D638
Tensile Strain, brk >15 % ASTM D638
Flexural Modulus 215,000 psi ASTM D790
Notched Izod Impact 1 ft-lbs/in ASTM D256

Thermal

Nominal Value Unit

Test Method

Deflection Temperature Under Load (0.45 MPa) 275 °F ASTM D648
Deflection Temperature Under Load (1.8 MPa) 140 °F ASTM D648
Melting Point 420 °F TVT Internal

Flammability

Nominal Value Unit

Test Method

0.06 in HB UL94 - TVT Internal

Recommended Processing Guidance

Drying Temperature 150 to 175 °F
Drying Time - DESSICANT 3 to 6 Hours
Suggested Max Moisture 0.2 %
Processing Melt Temperature 500 to 540 °F
Mold Temperature 140 to 200 °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.