



TRIVALENCE

TriLON™ 12G50 (U,L,HS,N)

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Polyamide Nylon 12

General Information

Product Description

50% Glass Fiber Reinforced Nylon 12 offered with various additives.

FEATURES

- Good Strength
- Fast Cyling
- Excellent Chemical Resistance
- Gasoline Resistant
- 50% Glass Fiber Reinforced
- Oil/Solvent Resistant
- High Rigidity

ADDITIONAL FORMULAS

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

COLOR

- All
- Translucent/Opaque

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	1.47 g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.2mm)	0.1 to 0.4 %	ASTM D955
Outdoor Suitability (QUV) ("U" Grades)	Pass	TVT Internal
Mechanical	Nominal Value Unit	Test Method
Tensile Strength, brk	25,000 psi	ASTM D638
Tensile Strain	>5 %	ASTM D638
Flexural Modulus	1,400,000 psi	ASTM D790
Notched Izod Impact	3.0 ft-lbs/in	ASTM D256
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	320 °F	ASTM D648
Melting Point	355 °F	TVT Internal
Flammability	Nominal Value Unit	Test Method
0.06 in	HB	UL94 - TVT Internal

Recommended Processing Guidance

- Drying Temperature 170 to 190 °F
- Drying Time - DESSICANT 3 to 6 Hours
- Suggested Max Moisture 0.2 %
- Processing Melt Temperature 480 to 530 °F
- Mold Temperature 130 to 195 °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.