



**TRIVALENCE**

# TriLON™ 61AG50 (U,L,HS,N)

**Polyamide Nylon 6**

**General Information**

**Product Description**

50% Glass Fiber Reinforced Nylon 6 offered with various additives.

**FEATURES**

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

**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 Properties<sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density	1.56	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.2mm)	0.1 to 0.3	%	ASTM D955
Outdoor Suitability (QUV) ("U" Grades)	Pass		TVT Internal
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength, brk	31,000	psi	ASTM D638
Tensile Strain	>3	%	ASTM D638
Flexural Modulus	2,000,000	psi	ASTM D790
Notched Izod Impact	3.0	ft-lbs/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	435	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	420	°F	ASTM D648
Melting Point	430	°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