



TRIVALENCE

TriLON™ 61BG50 (U,L,HS,N)

Polyamide Nylon 6

General Information

Product Description

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

FEATURES

- Great 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	1.56	g/cm ³	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	32,000	psi	ASTM D638
Tensile Strain	>3	%	ASTM D638
Flexural Modulus	1,800,000	psi	ASTM D790
Notched Izod Impact	2.7	ft-lbs/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	415	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	400	°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