

TM


**TRIVALENCE**

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# TriLON™ 61BG30 (U,L,HS,N)

[trivalencetechnologies.com](http://trivalencetechnologies.com)

## Polyamide Nylon 6

### General Information

#### Product Description

30% Glass Fiber Reinforced Nylon 6 offered with various additives

#### FEATURES

- Great Strength
- Oil/Solvent Resistant
- Fast Cyling
- High Rigidity
- Excellent Chemical Resistance
- Gasoline Resistant
- 30% Glass Fiber Reinforced

#### ADDITIONAL FORMULAS

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

#### COLOR

- All
- Translucent/Opaque

#### General

<b>Typical Applications</b>	-Appliance, automotive, general, pumps, impellers, housings
<b>Processing Method</b>	-Injection
<b>Form(s)</b>	-Pellets
<b>Compliance</b>	-RoHS Compliant - TVT
<b>Availability</b>	-North America, Europe, Latin America

### ASTM / ISO Properties<sup>1</sup>

Physical	Nominal Value Unit	Test Method
Density	1.36 g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.2mm)	0.3 to 0.6 %	ASTM D955
Outdoor Suitability (QUV) ("U" Grades)	Pass	TVT Internal
Mechanical	Nominal Value Unit	Test Method
Tensile Strength, brk	23,000 psi	ASTM D638
Tensile Strain	>3 %	ASTM D638
Flexural Modulus	1200000 psi	ASTM D790
Notched Izod Impact	1.8 ft-lbs/in	ASTM D256
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	420 °F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	370 °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

<sup>1</sup> 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.