



**TRIVALENCE**

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# TriLON™ 661BG30HHS (U,L,HS,N) ISO

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

## Polyamide Nylon 66

### General Information

#### Product Description

30% Glass Fiber Reinforced Nylon 66 offered with various additives. High Strength

#### FEATURES

-Hydrolysis Resistant -Oil/Solvent Resistant  
-Fast Cyling -High Heat Resistance  
-High Strength -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

**Typical Applications** -Appliance, transportation, pumps, impellers, housings, gears  
**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	1.36 g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage - Flow (3.2mm)	0.3 to 0.7 %	ISO 294
Molding Shrinkage - x- Flow (3.2mm)	1.0 to 1.4 %	ISO 294
Outdoor Suitability (QUV) ("U" Grades)	Pass	TVT Internal

#### Mechanical

	Nominal Value Unit	Test Method
Tensile Strength, yld	150 MPa	ISO 527
Tensile Strain	>3.0 %	ISO 527
Flexural Modulus	9000 MPa	ISO 178
Notched Izod Impact	9 kJ/m <sup>2</sup>	ISO 180

#### Thermal

	Nominal Value Unit	Test Method
Deflection Temperature Under Load (1.8 MPa)	245 °C	ISO 75
Melting Temperature	262 °C	ISO 3146

#### Flammability

	Nominal Value Unit	Test Method
0.06 in	HB	UL94 - TVT Internal

### Recommended Processing Guidance

Drying Temperature	70 to 90 °C
Drying Time - DESSICANT	3 to 6 Hours
Suggested Max Moisture	0.2 %
Processing Melt Temperature	285 to 305 °C
Mold Temperature	80 to 100 °C

<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.