



**TRIVALENCE**

# TriLON™ 61 (U,L,HS,N)

Headquarters  
3001 Maxx Rd  
Evansville, IN 47711  
800.209.2517

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

## Polyamide Nylon 6

### General Information

#### Product Description

General purpose, Nylon 6 offered with various additives

#### FEATURES

-Good Toughness -Oil/Solvent Resistant  
-Fast Cyling -High Rigidity  
-Excellent Chemical Resistance  
-Gasoline Resistant

#### ADDITIONAL FORMULAS

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

#### COLOR

-All  
-Translucent/Opaque

#### General

**Typical Applications** -Appliance, automotive, general  
**Processing Method** -Injection  
**Form(s)** -Pellets  
**Compliance** -RoHS Compliant - TVT  
**Availability** -North America, Europe, Latin America

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

	Nominal Value Unit	Test Method
<b>Physical</b>		
Density	1.13 g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.2mm)	0.5 to 0.7 %	TVT Internal
Outdoor Suitability (QUV) ("U" Grades)	Pass	TVT Internal
<b>Mechanical</b>		
Tensile Strength, yld	11000 psi	ASTM D638
Tensile Strain	>24 %	ASTM D638
Flexural Modulus	400000 psi	ASTM D790
Notched Izod Impact	0.8 ft-lbs/in	ASTM D256
<b>Thermal</b>		
Deflection Temperature Under Load (0.45 MPa)	330 °F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	140 °F	ASTM D648
Melting Point	425 °F	TVT Internal
<b>Flammability</b>		
0.06 in	HB	UL94 - TVT Internal

### Recommended Processing Guidance

Drying Temperature 150 to 175 °F  
Drying Time - DESSICANT 3 to 6 Hours  
Suggested Max Moisture 0.2 %  
Processing Melt Temperature 470 to 545 °F  
Mold Temperature 140 to 200 °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.