



**TRIVALENCE**

Headquarters  
3001 Maxx Rd  
Evansville, IN 47711  
800.209.2517

# TriLON™ 661BG43 (U,L,HS,N)

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

## Polyamide Nylon 66

### General Information

#### Product Description

General purpose, 43% Glass Fiber Reinforced Nylon 66 offered with various additives.

#### FEATURES

- Great Strength
- Oil/Solvent Resistant
- Fast Cyling
- High Rigidity
- Excellent Chemical Resistance
- Gasoline Resistant
- 43% 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                                      | 1.50          | g/cm <sup>3</sup> | ASTM D792           |
| Molding Shrinkage - Flow (3.2mm)             | 0.1 to 0.4    | %                 | TVT Internal        |
| Outdoor Suitability (QUV) ("U" Grades)       | Pass          |                   | TVT Internal        |
| Mechanical                                   | Nominal Value | Unit              | Test Method         |
| Tensile Strength, yld                        | 28,500        | psi               | ASTM D638           |
| Tensile Strain                               | >2            | %                 | ASTM D638           |
| Flexural Modulus                             | 1750000       | 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) | 490           | °F                | ASTM D648           |
| Deflection Temperature Under Load (1.8 MPa)  | 470           | °F                | ASTM D648           |
| Melting Point                                | 504           | °F                | TVT Internal        |
| Flammability                                 | Nominal Value | Unit              | Test Method         |
| 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 540 to 570 °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.