



**TRIVALENCE**

# TriLON™ 661BG30 (U,L,HS,N)

**Polyamide Nylon 66**

## General Information

### Product Description

General purpose, 30% Glass Fiber Reinforced Nylon 66 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"  
 -Additonal 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                                      | 1.37 g/cm <sup>3</sup> | ASTM D792           |
| Molding Shrinkage - Flow (3.2mm)             | 0.4 to 0.8 %           | TVT Internal        |
| Outdoor Suitability (QUV) ("U" Grades)       | Pass                   | TVT Internal        |
| Mechanical                                   | Nominal Value Unit     | Test Method         |
| Tensile Strength, yld                        | 26000 psi              | ASTM D638           |
| Tensile Strain                               | >3 %                   | ASTM D638           |
| Flexural Modulus                             | 1350000 psi            | ASTM D790           |
| Notched Izod Impact                          | 1.3 ft-lbs/in          | ASTM D256           |
| Thermal                                      | Nominal Value Unit     | Test Method         |
| Deflection Temperature Under Load (0.45 MPa) | 480 °F                 | ASTM D648           |
| Deflection Temperature Under Load (1.8 MPa)  | 460 °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