



**TRIVALENCE**

# TriLON™ 61BG43 (U,L,HS,N)

**Polyamide Nylon 6**

**General Information**

**Product Description**

43% Glass Fiber Reinforced Nylon 6 offered with various additives.

**FEATURES**

- Great Strength
- Fast Cyling
- Excellent Chemical Resistance
- Gasoline Resistant
- 43% Glass Fiber Reinforced
- Oil/Solvent Resistant
- High Rigidity

**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                                      | 1.48          | g/cm <sup>3</sup> | ASTM D792           |
| Molding Shrinkage - Flow (3.2mm)             | 0.2 to 0.5    | %                 | ASTM D955           |
| Outdoor Suitability (QUV) ("U" Grades)       | Pass          |                   | TVT Internal        |
| Mechanical                                   | Nominal Value | Unit              | Test Method         |
| Tensile Strength, brk                        | 26,000        | psi               | ASTM D638           |
| Tensile Strain                               | >3            | %                 | ASTM D638           |
| Flexural Modulus                             | 1,400,000     | psi               | ASTM D790           |
| Notched Izod Impact                          | 2.2           | ft-lbs/in         | ASTM D256           |
| Thermal                                      | Nominal Value | Unit              | Test Method         |
| Deflection Temperature Under Load (0.45 MPa) | 425           | °F                | ASTM D648           |
| Deflection Temperature Under Load (1.8 MPa)  | 410           | °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