TRIVALENCE

# TriLON™ 662AG50 (U,L,HS,N)

**Polyamide Nylon 66**

## General Information

### Product Description

General purpose, 50% Glass Fiber Reinforced Nylon 66 offered with various additives.

| FEATURES | | ADDITIONAL FORMULAS | COLOR |
|---|---|---|---|
| -Superior Strength | -Oil/Solvent Resistant | -Added Lubricant "L" | -All |
| -Fast Cyling | -High Rigidity | -Additional UV "U" | -Translucent/Opaque |
| -Excellent Chemical Resistance | | -Additonal Heat Stabilizers "HS" | |
| -Gasoline Resistant | | -Nucleated "N" | |
| -50% Glass Fiber Reinforced | | | |

### 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[1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 1.58 | g/cm³ | ASTM D792 |
| Molding Shrinkage - Flow (3.2mm) | 0.1 to 0.3 | % | TVT Internal |
| Outdoor Suitability (QUV) ("U" Grades) | Pass | | TVT Internal |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength, yld | 32,000 | psi | ASTM D638 |
| Tensile Strain | >2 | % | ASTM D638 |
| Flexural Modulus | 2,200,000 | psi | ASTM D790 |
| Notched Izod Impact | 2.8 | ft-lbs/in | ASTM D256 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load (0.45 MPa) | 505 | °F | ASTM D648 |
| Deflection Temperature Under Load (1.8 MPa) | 480 | °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 |