



**TRIVALENCE**

# TriLON™ 64 (U,L,HS,N)

**Polyamide Nylon 6**

## General Information

### Product Description

General purpose impact modified, 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"  
 -Additonal 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                                      | 1.08          | g/cm <sup>3</sup> | ASTM D792           |
| Molding Shrinkage - Flow (3.2mm)             | 1.1 to 1.4    | %                 | TVT Internal        |
| Outdoor Suitability (QUV) ("U" Grades)       | Pass          |                   | TVT Internal        |
| <b>Mechanical</b>                            |               |                   |                     |
| Tensile Strength, yld                        | 7,900         | psi               | ASTM D638           |
| Tensile Strain                               | >50           | %                 | ASTM D638           |
| Flexural Modulus                             | 270000        | psi               | ASTM D790           |
| Notched Izod Impact                          | >12           | ft-lbs/in         | ASTM D256           |
| <b>Thermal</b>                               |               |                   |                     |
| Deflection Temperature Under Load (0.45 MPa) | 300           | °F                | ASTM D648           |
| Deflection Temperature Under Load (1.8 MPa)  | 125           | °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