



**TRIVALENCE**

# TriLON™ 61GM40 (U,L,HS)

**Polyamide Nylon 6**

**General Information**

**Product Description**

40% Glass Fiber/Mineral Reinforced Nylon 6 offered with various additives.

**FEATURES**

- Medium Strength -Oil/Solvent Resistant
- Fast Cyling -Good Dimensional Stability
- Excellent Chemical Resistance
- Gasoline Resistant
- 40% Glass Fiber/Mineral Reinforced

**ADDITIONAL FORMULAS**

- Added Lubricant "L"
- Additional UV "U"
- Additional Heat Stabilizers "HS"

**COLOR**

- All
- Translucent/Opaque

**General**

- |                             |   |
|-----------------------------|---|
| <b>Typical Applications</b> | -Appliance, automotive, general, housings |
| <b>Processing Method</b>    | -Injection                                |
| <b>Form(s)</b>              | -Pellets                                  |
| <b>Compliance</b>           | -RoHS Compliant - TVT                     |
| <b>Availability</b>         | -North America, Europe, Latin America     |

**ASTM / ISO Properties<sup>1</sup>**

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density	1.49	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
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength, brk	16,000	psi	ASTM D638
Tensile Strain	>2	%	ASTM D638
Flexural Modulus	1300000	psi	ASTM D790
Notched Izod Impact	1.2	ft-lbs/in	ASTM D256
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (0.45 MPa)	412	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	378	°F	ASTM D648
Melting Point	429	°F	TVT Internal
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
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 | 515 to 580 °F |
| Mold Temperature            | 175 to 190 °F |