



**TRIVALENCE**

# TriLON™ 612G43 (U,L,HS,N)

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## Polyamide 612

### General Information

#### Product Description

43% Glass Fiber Reinforced Nylon 612 offered with various additives.

#### FEATURES

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

#### ADDITIONAL FORMULAS

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

#### COLOR

- All
- Translucent/Opaque

#### General

- |                             |   |
|-----------------------------|---|
| <b>Typical Applications</b> | -Appliance, automotive, general, pumps, impellers, 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>

Physical	Nominal Value Unit	Test Method
Density	1.43 g/cm <sup>3</sup>	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, brk	180 MPa	ASTM D638
Tensile Strain	>3 %	ASTM D638
Flexural Modulus	9500 MPa	ASTM D790
Notched Izod Impact	150 J/M	ASTM D256
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	430 °F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	400 °F	ASTM D648
Melting Point	425 °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 | 520 to 550 °F |
| Mold Temperature            | 140 to 200 °F |

<sup>1</sup> Note: The values listed on this guide are typical values based on general molding conditions and used solely for the purpose of general material processing. It is recommended that application properties be derived from actual molded articles, whereas properties as molded could vary. These are not to be used as specifications. This data does not provide an implied conditional warranty.