



**TRIVALENCE**

# TriLON 612(U,L,HS,N)

## Polyamide 612

Headquarters  
3001 Maxx Road  
Evansville, IN 47711  
800.209.2517

trivalencetechnologies.com

### General Information

#### Product Description

Nylon 612 Impact Modified

#### FEATURES

- Great Impact
- Fast Cyling
- Excellent Chemical Resistance
- Gasoline Resistant
- 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	1.05	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.2mm)	1.2 to 1.6	%	TVT Internal
Outdoor Suitability (QUV) ("U" Grades)	Pass		TVT Internal
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength, brk	5,800	psi	ASTM D638
Tensile Strain	>50	%	ASTM D638
Flexural Modulus	185,000	psi	ASTM D790
Notched Izod Impact	15	ft-lbs/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	275	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	180	°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 500 to 540 °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.