



**TRIVALENCE**

# TriLON™ 612(U,L,HS,N)

**Polyamide 612**

**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"
- Additonal 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>**

	Nominal Value	Unit	Test Method
<b>Physical</b>			
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
<b>Mechanical</b>			
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
<b>Thermal</b>			
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
<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 500 to 540 °F
- Mold Temperature 140 to 200 °F