



TRIVALENCE

TriLON™ 612G43 (U,L,HS,N)

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"
- 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 Properties¹

Physical	Nominal Value Unit	Test Method
Density	1.43 g/cm ³	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