



TRIVALENCE

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TriLON™ 61GM40 (U,L,HS)

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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

Typical Applications	-Appliance, automotive, general, 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	1.49	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.2mm)	0.2 to 0.5	%	ASTM D955
Outdoor Suitability (QUV) ("U" Grades)	Pass		TVT Internal
Mechanical	Nominal Value	Unit	Test Method
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
Thermal	Nominal Value	Unit	Test Method
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
Flammability	Nominal Value	Unit	Test Method
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

¹ 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.