

TM


TRIVALENCE

TriLON™ 12 (U,L,HS,N)

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Polyamide 12

General Information

Product Description

Nylon 12 Unfilled

FEATURES

-Low Density -Oil/Solvent Resistant
-Fast Cyling -High Rigidity
-Excellent Chemical Resistance
-Gasoline Resistant

ADDITIONAL FORMULAS

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

COLOR

- Grey/Black

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	1.02	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.2mm)	1.5 to 2.2	%	TVT Internal
Outdoor Suitability (QUV) ("U" Grades)	Pass		TVT Internal
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength, brk	7,000	psi	ASTM D638
Tensile Strain, brk	>10	%	ASTM D638
Flexural Modulus	200,000	psi	ASTM D790
Notched Izod Impact	1	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)	140	°F	ASTM D648
Melting Point	420	°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

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.