



## NYLON MONO

### BRAIDED FROM 12MIL NYLON 6-6 POLYAMIDE MONOFILAMENT YARNS EXPANDS UP TO 150% · RESISTS GASOLINE & ENGINE CHEMICALS

Nylon Mono (NYN) is commonly used in the automotive industry to protect hoses and wire harnesses from excessive wear. NY's tough characteristics can increase hose life up to 300%. This lengthened life span is recognized in terms of reduced maintenance, a professional, attractive and durable appearance and greater customer satisfaction. With the additional protection that NYN provides, it pays for itself throughout the life of your product. Nylon Mono is braided from .012" nylon 6-6 Polyamide monofilament. The tight braid construction covers fully and provides excellent surface abrasion resistance for assemblies exposed to excessive wear. The smooth nylon fibers and tight construction also reduce abrasion damage caused by hoses and harnesses rubbing against the inside wall of the sleeving. NYN resists all common automotive chemicals and UV damage. It won't rot or retain moisture.

#### SIZING CHART

Nominal Size	Part #	Min Expansion	Max Expansion	*Put-Ups		Available Colors	Lbs/100'
				M	L		
1/8"	NYN0.13BK	3/32"	1/4"	225'	1,000'	1	0.22
1/4"	NYN0.25BK	1/8"	3/8"	200'	1,000'	1	0.31
3/8"	NYN0.38BK	1/4"	7/16"	125'	500'	1	0.72
1/2"	NYN0.50BK	3/8"	3/4"	100'	500'	1	1.03
5/8"	NYN0.63BK	7/16"	1"	100'	500'	1	1.12
3/4"	NYN0.75BK	1/2"	1 1/4"	75'	250'	1	1.47
1"	NYN1.00BK	5/8"	1 3/8"	50'	250'	1	1.60
1 1/4"	NYN1.25BK	3/4"	1 1/2"	50'	250'	1	1.78
1 1/2"	NYN1.50BK	1"	2"	40'	200'	1	2.55
2"	NYN2.00BK	1 1/2"	3"	50'	200'	1	2.26

\*Put-Ups: "M" = Shop Spool and "L" = Bulk Spool



#### FEATURES

Material	Nylon 6-6 Polyamide
Grade	NYN
Monofilament Diameter	.012"
Drawing Number	TF001NYN-WD
Cutting	Hot Knife

#### COLORS



Black (BK)

#### CERTIFICATIONS





## ABRASION

Abrasion Resistance	<b>HIGH</b>
Abrasion Test Machine	Taber 5150
Abrasion Test Wheel	Calibrase H-18
Abrasion Test Load	500g
Room Temperature	72°F
Humidity	48%
Several Strands Broken	400 Test Cycles
Material Destroyed - Several Small Holes, Worn Through	1,200 Test Cycles
Pre-Test Weight	4,637.0 mg
Post-Test Weight	4,030.3 mg
Test End Loss Of Mass Point Of Destruction	606.7 mg

## PHYSICAL PROPERTIES

Monofilament Diameter (ASTM D-204)	.012"
Flammability Rating	
Recommended Cutting	Hot Knife
Colors	1
Wall Thickness	.03"
Tensile Strength (Yarn) (ASTM D-2256 Lbs)	10.5
Specific Gravity (ASTM D-792)	1.14
Moisture Absorption % (ASTM D-570)	2.5
Hard Vacuum Data (ASTM E-595 at 10-5 torr)	NA
TML	1.10
CVCM	.01
WVR	.69
Smoke D-Max (ASTM E-662)	NA
Outgassing	High
Oxygen Index (ASTM D-2863)	22

## FLAMMABILITY

Rating	
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## OPERATING TEMPERATURES

Melt Point (ASTM D-2117)	493°F / 256°C
Maximum Continuous (Mil-I-23053)	302°F / 150°C
Minimum Continuous (Mil-I-23053)	-49°F / -45°C

## CHEMICAL RESISTANCE

1=No Effect 2=Little Effect 3=Affected 4=More Affected 5=Severely Affected

Aromatic Solvents	1
Aliphatic Solvents	1
Chlorinated Solvents	1
Weak Bases	1
Salts	1
Strong Bases	2
Salt Water (O-S-1926)	1
Hydraulic Fluid (MIL-H-5606)	1
Lube Oil (MIL-L-7808)	1
De-Icing Fluid (MIL-A-8243)	1
Strong Acids	5
Strong Oxidants	5
Esters/Ketones	1
UV Light	2
Petroleum	3
Fungus (ASTM G-21)	2
Halogen Free	Yes
RoHS	Yes
SVHC	None