



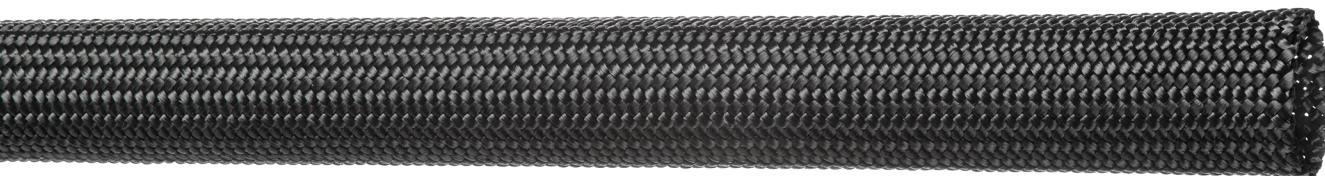
## NYLON MULTI DENSE, FULL COVERAGE CONSTRUCTION SOFT, PLIABLE, & QUIET • MEETS MILITARY SPECIFICATIONS A-A-59301

Under the hood or across the floor, Nylon Multi (NMN) is the perfect sleeving product for protecting and improving the appearance of wires and cables. Nylon Multi has been used in military wire harness applications for many years. Nylon Multi fabric-like softness and flexibility meet surprisingly tough specifications. The high coverage sleeving meets or exceeds military specifications A-A-59301. Nylon Multi is highly resistant to abrasion, cuts, common automotive and marine chemicals, UV damage and vibration. It will not rot or retain moisture. The wide operating temperature range allows Nylon Multi to protect delicate wiring in engine compartments and near exhaust systems. Nylon Multi creates a unique and attractive retro look when installed on a/v cables.

### SIZING CHART

| Nominal Size | Part #    | Wall Thickness ±.015" | *Put-Ups |        | Available Colors | Lbs/100' |
|--------------|-----------|-----------------------|----------|--------|------------------|----------|
|              |           |                       | M        | L      |                  |          |
| 3/32"        | NMN0.09BK | .020"                 | 225'     | 1,000' | 1                | 0.29     |
| 1/8"         | NMN0.13BK | .020"                 | 225'     | 1,000' | 1                | 0.33     |
| 3/16"        | NMN0.19BK | .030"                 | 200'     | 1,000' | 1                | 0.56     |
| 1/4"         | NMN0.25BK | .030"                 | 200'     | 500'   | 1                | 0.79     |
| 5/16"        | NMN0.31BK | .030"                 | 125'     | 500'   | 1                | 0.99     |
| 3/8"         | NMN0.38BK | .030"                 | 125'     | 500'   | 1                | 1.09     |
| 1/2"         | NMN0.50BK | .030"                 | 100'     | 250'   | 1                | 1.74     |
| 5/8"         | NMN0.63BK | .040"                 | 75'      | 250'   | 1                | 2.85     |
| 3/4"         | NMN0.75BK | .040"                 | 50'      | 250'   | 1                | 3.15     |
| 7/8"         | NMN0.88BK | .040"                 | 50'      | 200'   | 1                | 4.35     |
| 1"           | NMN1.00BK | .050"                 | 50'      | 200'   | 1                | 5.15     |
| 1 1/4"       | NMN1.25BK | .050"                 | 50'      | 125'   | 1                | 5.50     |
| 1 1/2"       | NMN1.50BK | .060"                 | 50'      | 100'   | 1                | 6.46     |
| 1 3/4"       | NMN1.75BK | .060"                 | 50'      | 100'   | 1                | 7.73     |
| 2"           | NMN2.00BK | .060"                 | 50'      | 100'   | 1                | 9.01     |
| 2 1/2"       | NMN2.50BK | .060"                 | 50'      | 100'   | 1                | 10.32    |
| 3"           | NMN3.00BK | .060"                 | 50'      | 100'   | 1                | 11.00    |
| TIGHT WEAVE  |           |                       |          |        |                  |          |
| 3/8"         | NMT0.38BK | .030"                 | 75'      | 250'   | 1                | 1.47     |

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



# SPECIALTY

## Technical Data Sheet



### FEATURES

|                         |                         |
|-------------------------|-------------------------|
| Material                | Polyamide Multifilament |
| Grade                   | NMN                     |
| Multifilament Thickness | NA                      |
| Drawing Number          | TF001NMN-WD             |
| Cutting                 | Hot Knife               |

### ABRASION

|  |                   |
|--|-------------------|
| Abrasion Resistance                          | VERY HIGH         |
| Abrasion Test Machine                        | Taber 5150        |
| Abrasion Test Wheel                          | Calibrase H-18    |
| Abrasion Test Load                           | 500g              |
| Room Temperature                             | 70°F              |
| Humidity                                     | 58%               |
| Much Pulling Of Fibers - Very Visible Wear   | 20 Test Cycles    |
| Wear Pattern Continues                       | 1,400 Test Cycles |
| Material Destroyed - Hole Completely Through | 3,200 Test Cycles |
| Pre-Test Weight                              | 11,759.5 mg       |
| Post-Test Weight                             | 10,990.2 mg       |
| Test End Loss Of Mass Point Of Destruction   | 769.3 mg          |

### FLAMMABILITY

|        |  |
|--------|--|
| Rating |  |
|--------|--|

### PHYSICAL PROPERTIES

|  |           |
|--|-----------|
| Monofilament Diameter (ASTM D-204)         | NA"       |
| Flammability Rating                        |           |
| Recommended Cutting                        | Hot Knife |
| Colors                                     | 1         |
| Wall Thickness                             | .02"-.06" |
| Tensile Strength (Yarn) (ASTM D-2256 Lbs)  | NA        |
| 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        |

### CERTIFICATIONS



### COLORS



Black (BK), \*White (WH), \*Gray (GY), \*Blue (BL), \*Orange (OR), \*Red (RD), \*Purple (PP), \*Silver (SV), \*Copper (CP), \*Citrus Yellow (CY), \*Navy Blue (VB)

\*Only by special order

### OPERATING TEMPERATURES

|                          |               |
|--------------------------|---------------|
| Melt Point (ASTM D-2117) | 428°F / 220°C |
| Maximum Continuous       | 248°F / 120°C |
| Minimum Continuous       | -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   | 2    |
| UV Light   | 2    |
| Petroleum  | 2    |
| Fungus (ASTM G-21)   | 3    |
| Halogen Free   | Yes  |
| RoHS   | Yes  |
| SVHC   | None |

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104 Demarest Road • Sparta, NJ 07871 • (833) SLEEVING • (973) 300-9242 • fax: (973) 300-9409

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