



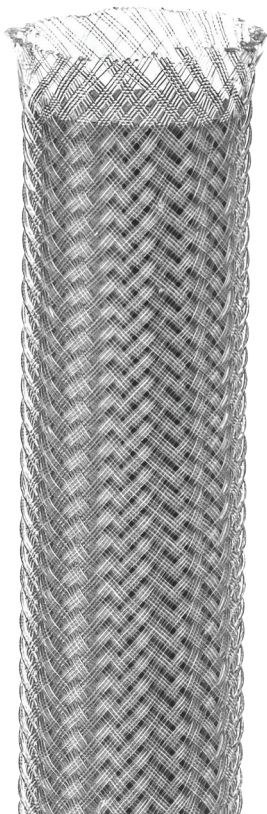
## FLEXO® PFA HIGH TEMP STABLE · LOW OUTGASSING PLENUM SUITABLE

FLEXO® PFA (TFN) expandable sleeving is ideal in applications where flame, chemical and very high temperature resistance are significant considerations. Braided from 16 mil perfluoroalkoxy (TFN) polymer monofilament. The high temperature properties of Flexo® PFA make it the ideal choice for aerospace, military and high-tech applications where thermal stability and low outgassing are critical. Flexo® PFA is suitable for plenum applications. What Makes Flexo® PFA So Special? Flexo® PFA is inert to virtually all chemicals and is considered the most slippery material on the planet. These properties have made it one of the most valuable and versatile technologies ever invented, contributing to advancements in areas such as aerospace, communications, electronics, industrial processes and architecture.

### SIZING CHART

| Nominal Size | Part #  | Min Expansion | Max Expansion | *Put-Ups |        | Available Colors | Lbs/ 100' |
|--------------|---------|---------------|---------------|----------|--------|------------------|-----------|
|              |         |               |               | M        | L      |                  |           |
| 1/8"         | TFN0.13 | 3/32"         | 1/4"          | 225'     | 1,000' | 2                | 0.50      |
| 1/4"         | TFN0.25 | 3/16"         | 3/8"          | 200'     | 1,000' | 2                | 0.68      |
| 3/8"         | TFN0.38 | 1/4"          | 3/4"          | 125'     | 500'   | 2                | 2.20      |
| 1/2"         | TFN0.50 | 3/8"          | 7/8"          | 100'     | 500'   | 2                | 2.60      |
| 3/4"         | TFN0.75 | 5/8"          | 1 1/4"        | 75'      | 250'   | 2                | 2.90      |
| 1 1/4"       | TFN1.25 | 1 1/8"        | 1 1/2"        | 50'      | 200'   | 2                | 4.80      |
| 1 3/4"       | TFN1.75 | 1 3/8"        | 1 3/4"        | 50'      | 200'   | 2                | 5.50      |
| 2"           | TFN2.00 | 1 11/16"      | 2 1/8"        | 25'      | 200'   | 2                | 6.40      |
| 2 1/4"       | TFN2.25 | -             | -             | -        | -      | 1                | -         |

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



### FEATURES

|                       |                 |
|-----------------------|-----------------|
| Material              | Perfluoroalkoxy |
| Grade                 | TFN             |
| Monofilament Diameter | .016"           |
| Drawing Number        | TF001TFN-WD     |
| Cutting               | Hot Knife       |

### COLORS



Natural (NT) Black (BK)

### CERTIFICATIONS





### ABRASION

|  |                   |
|--|-------------------|
| Abrasion Resistance                              | <b>VERY HIGH</b>  |
| Abrasion Test Machine                            | Taber 5150        |
| Abrasion Test Wheel                              | Calibrase H-18    |
| Abrasion Test Load                               | 500g              |
| Room Temperature                                 | 71°F              |
| Humidity   | 59%               |
| Slight Rough Surface<br>& A Few Filaments Broken | 1,500 Test Cycles |
| Visible Wear                                     | 2,000 Test Cycles |
| Material Destroyed                               | 3,000 Test Cycles |
| Pre-Test Weight                                  | 13,955.5 mg       |
| Post-Test Weight                                 | 12,911.9 mg       |
| Test End Loss Of Mass Point Of Destruction       | 1,043.6 mg        |

### PHYSICAL PROPERTIES

|  |           |
|--|-----------|
| Monofilament Diameter (ASTM D-204)         | .016"     |
| Flammability Rating (FMVSS-302 Approved)   | FAR-25    |
| Recommended Cutting                        | Hot Knife |
| Colors                                     | 2         |
| Wall Thickness                             | .04"      |
| Tensile Strength (Yarn) (ASTM D-2256 Lbs)  | 2.1       |
| Specific Gravity (ASTM D-792)              | 2.15      |
| Moisture Absorption % (ASTM D-570)         | <.01      |
| Hard Vacuum Data (ASTM E-595 at 10-5 torr) |           |
| TML  | .00       |
| CVCM                                       | .00       |
| WVR  | 0         |
| Smoke D-Max (ASTM E-662)                   |           |
| Outgassing                                 | Very Low  |
| Oxygen Index (ASTM D-2863)                 | >95       |

### FLAMMABILITY

|        |        |
|--------|--------|
| Rating | FAR-25 |
|--------|--------|

### OPERATING TEMPERATURES

|                          |               |
|--------------------------|---------------|
| Melt Point (ASTM D-2117) | 590°F / 310°C |
| Maximum Continuous       | 550°F / 280°C |
| Minimum Continuous       | -94°F / -70°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                 | 1   |
| 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                 | 1   |
| Strong Oxidants              | 1   |
| Esters/Ketones               | 2   |
| UV Light                     | 1   |
| Petroleum                    | 1   |
| Fungus (ASTM G-21)           | 1   |
| Halogen Free                 | No  |
| RoHS                         | Yes |
| SVHC                         |     |