

TEFLON®

- Plenum Suitable
- FAR 25 Approved
- Expands Up To 150%
- Resists Gasoline And Other Chemicals
- Cut And Abrasion Resistant

Put-Ups

| Nominal Size | Part # | Expansion Range | | Bulk Spool | Shop Spool | Available Colors | Lbs/100' |
|---------------------|-----------|-----------------|--------|------------|------------|------------------|----------|
| | | Min | Max | | | | |
| 1/8" | TFN0.13NT | 3/32" | 1/4" | 1,000' | 225' | Natural | 0.50 |
| 1/4" | TFN0.25NT | 3/16" | 3/8" | 1,000' | 200' | Natural | 0.68 |
| 3/8" | TFN0.38NT | 1/4" | 3/4" | 500' | 125' | Natural | 2.20 |
| 1/2" | TFN0.50NT | 3/8" | 7/8" | 500' | 100' | Natural | 2.60 |
| 3/4" | TFN0.75NT | 5/8" | 1 1/4" | 250' | 75' | Natural | 2.90 |
| 1 1/4" | TFN1.25NT | 1 1/8" | 1 1/2" | 200' | 50' | Natural | 4.80 |
| 1 3/4" | TFN1.75NT | 1 3/8" | 1 3/4" | 200' | 50' | Natural | 5.50 |
| 2" | TFN2.00NT | 1 11/16" | 2 1/8" | 200' | 25' | Natural | 6.40 |
| Overexpanded | | | | | | | |
| 1/2" | TFO0.50NT | 3/8" | 1" | 500' | 100' | Natural | 2.60 |



Cut Cleanly
Hot Knife

| | |
|------------------------------|------------------------|
| Material | Perfluoroalkoxy |
| Grade | TFN |
| Monofilament Diameter | .016" |
| Drawing Number | TF001TF-WD |

High Temp Stable, Abrasion Resistant, Low Outgassing

TEFLON® (TF) expandable sleeving is ideal in applications where flame, chemical and very high temperature resistance are significant considerations. Braided from 16 mil Teflon® perfluoroalkoxy (PFA) polymer monofilament.

The high temperature properties of TF make it the ideal choice for aerospace, military and high-tech applications where thermal stability and low outgassing are critical. TF is suitable for plenum applications.

What Makes Teflon® so Special?

Since it's accidental discovery in 1938, Teflon has emerged as one of the most useful polymers in existence. Teflon® 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.

One of Teflon's most unusual properties was only recently discovered. When strands of PTFE are pulled, they actually get fatter rather than thinner! This makes the polymer incredibly hard without being brittle.

Colors Available:
 Natural (NT)



High temperature resistance and low outgassing allows Teflon sleeving to function in high-temp environments.



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FAR-25



TEFLON®



Abrasion Resistance
Very High

Abrasion Test Machine
Taber 5150

Abrasion Test Wheel
Calibrase H-18

Abrasion Test Load
500g

Room Temperature
71°F

Humidity
59%

Slight Rough Surface And
A Few Filaments Broken
1,500 Test Cycles

Visible Wear And Three
Filaments Broken
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



Rating _____ **FAR 25**



Chemical Resistance

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

| | | |
|----------------------------|-------|-----|
| Aromatic Solvents | _____ | 1 |
| Aliphatic Solvents | _____ | 1 |
| Chlorinated Solvents | _____ | 1 |
| Weak Bases | _____ | 1 |
| Salts | _____ | 1 |
| Strong Bases | _____ | 1 |
| Salt Water 0-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/Keytones | _____ | 2 |
| UV Light | _____ | 1 |
| Petroleum | _____ | 1 |
| Fungus ASTM G-21 | _____ | 1 |
| Halogen Free | _____ | No |
| RoHS | _____ | Yes |
| SVHC | _____ | |

Melt Point
 ASTM D-2117
590°F (310°C)

Maximum Continuous
 Mil-I-23053
550°F (280°C)

Minimum Continuous
-94°F (-70°C)



PHYSICAL PROPERTIES

| | | |
|-----------------------------|--------------------------------|----------------|
| Monofilament Diameter | _____ | .016 |
| <i>ASTM D-204</i> | | |
| Flammability Rating | _____ | FAR 25 |
| Recommended Cutting | _____ | Hot Wire/Knife |
| Colors | _____ | 1 |
| Wall Thickness | _____ | .04 |
| Tensile Strength (Yarn) | _____ | 2.1 |
| <i>ASTM D-2256 Lbs</i> | | |
| Specific Gravity ASTM D-792 | _____ | 2.15 |
| Moisture Absorption | _____ | <.01 |
| <i>% ASTM D-570</i> | | |
| Hard Vacuum Data | <i>ASTM E-595 at 10-5 torr</i> | |
| TML | _____ | .00 |
| CVCM | _____ | .00 |
| WVR | _____ | 0 |
| Smoke D-Max | _____ | |
| <i>ASTM E-662</i> | | |
| Outgassing | _____ | Very Low |
| Oxygen Index | _____ | >95 |
| <i>ASTM D-2863</i> | | |

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