

**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
<b>Overexpanded</b>							
1/2"	TFO0.50NT	3/8"	1"	500'	100'	Natural	2.60



**Cut Cleanly**  
**Hot Knife**

**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.

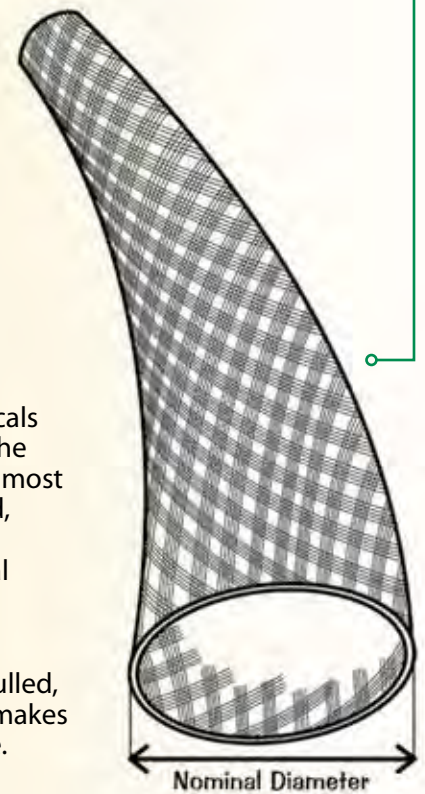
The high temperature properties of TF make it the ideal choice for aerospace, military and high-tech applications where thermal stability and low outgassing are critical. TF is suitable for plenum applications.

**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)



<b>Material</b>	<b>Perfluoroalkoxy</b>
<b>Grade</b>	<b>TFN</b>
<b>Monofilament Diameter</b>	<b>.016"</b>
<b>Drawing Number</b>	<b>TF001TF-WD</b>



[www.techflex.com](http://www.techflex.com)

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



**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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