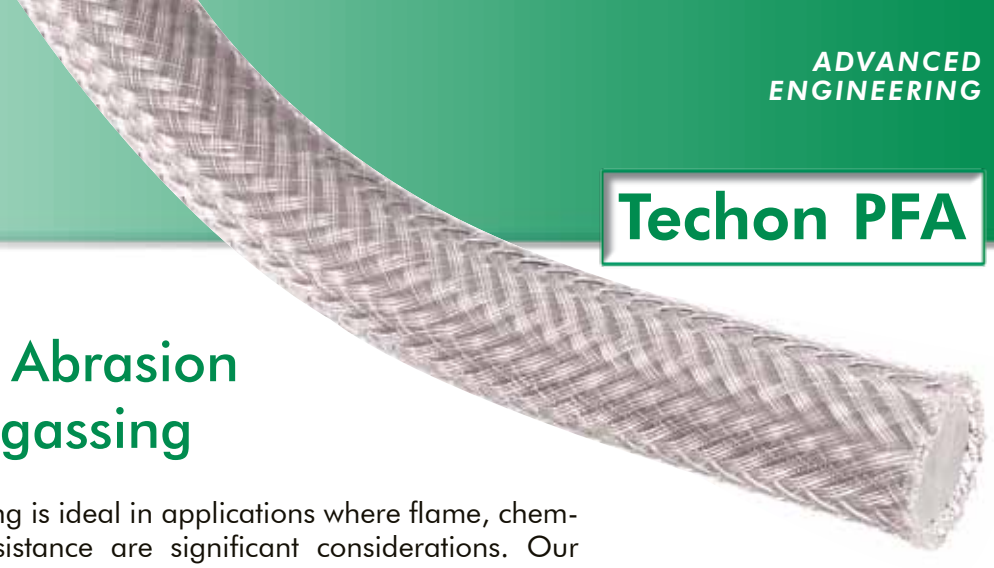
TECHON PFA

Techon PFA



High Temp Stable, Abrasion Resistant, Low Outgassing

TECHON PFA (TF) expandable sleeving is ideal in applications where flame, chemical and very high temperature resistance are significant considerations. Our Techon PFA sleeving meets current aviation/aerospace specifications.

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. TF is braided from 16 mil perfluoroalkoxy (PFA) polymer monofilament.

- ***Plenum Suitable***
- ***FAR 25 Approved***
- ***Easy to Install***
- ***Cut and Abrasion Resistant***
- ***Expands up to 150%***
- ***Resists Gasoline and Other Chemicals***
- ***Temperature Range -94°F to 550°F***
- ***Melt Temp. 590°F***

Cabling in passenger area plenums aboard aircraft are a perfect application for Techon's low outgassing properties.

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

High temperature resistance allows Techon PFA sleeving to function in high-temp environments.

RoHS

FAR-25

ADVANCED ENGINEERING
Technical Data Sheet

TECHON PFA

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

Nominal Size	Part #	Expansion Range		Put-Ups: Bulk Spool	Put-Ups: Shop Spool	Available Colors	Lbs/ 100′
		Min	Max				
1/8″	TFN0.13NT	3/32″	1/4″	1,000′	225′	Natural	0.50
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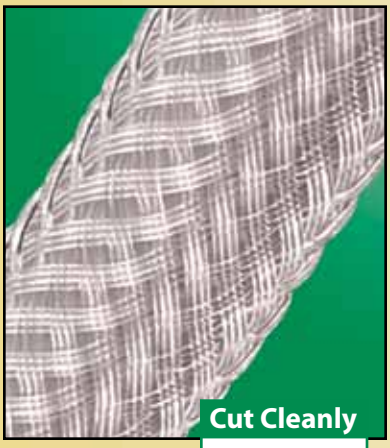
2″	TFN2.00NT	1 11/16″	2 1/8″	200′	25′	Natural	6.40
Overexpanded							
1/2″	TFO0.50NT	3/8″	1″	500′	100′	Natural	2.10



Material
Perfluoroalkoxy

Grade
TFN

Monofilament Diameter
.016″

Drawing Number
TF001TF-WD

High Temp Stable, Abrasion Resistant, Low Outgassing

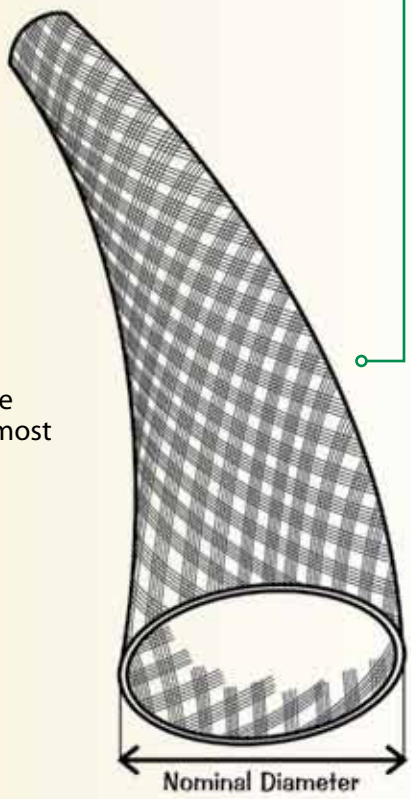
TECHON PFA (TF) expandable sleeving is ideal in applications where flame, chemical and very high temperature resistance are significant considerations. Braided from 16 mil perfluoroalkoxy (PFA) polymer monofilament.

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 Techon PFA so Special?

Techon 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.

Colors Available:
Natural (NT)



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

TECHFLEX
Braided Sleeving Products
www.techflex.com
800.323.5140 • 973.300.9242 • fax: 973.300.9409
104 Demarest Road • Sparta, NJ 07871

FAR-25

RoHS Compliant

ADVANCED ENGINEERING
Technical Data Sheet

TECHON PFA

ABRASION

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

FLAMMABILITY

Rating _____ FAR 25

Melt Point
ASTM D-2117
590°F (310°C)

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

Minimum Continuous
-94°F (-70°C)

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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 *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	

PHYSICAL PROPERTIES

Monofilament Diameter *ASTM D-204*	.016
Flammability Rating	FAR 25
Recommended Cutting	Hot Wire/Knife
Colors	1
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

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