

TECHON PFA

- 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	2.10



Cut Cleanly
Hot Knife

High Temp Stable, Abrasion Resistant, Low Outgassing

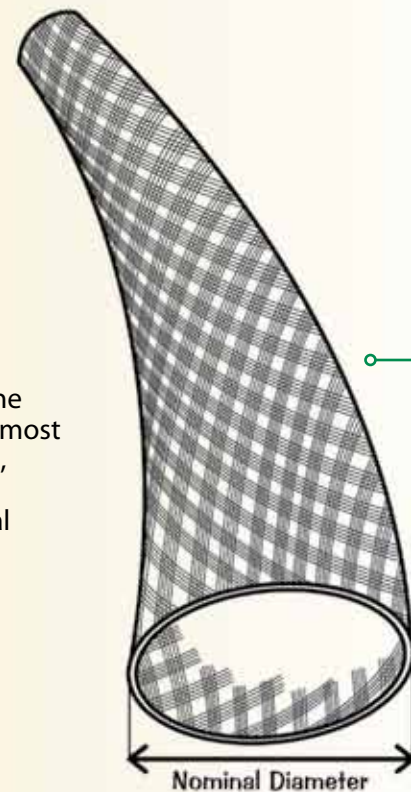
TECHON PFA (TF) expandable sleeving is ideal in applications where flame, chemical and very high temperature resistance are significant considerations. Braided from 16 mil perfluoroalkoxy (PFA) polymer monofilament.

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)



Material

Perfluoroalkoxy

Grade

TFN

Monofilament Diameter

.016"

Drawing Number

TF001TF-WD



www.techflex.com

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

FAR-25



TECHON PFA



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)

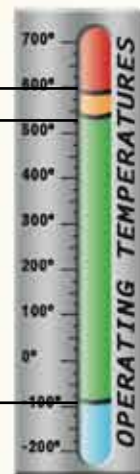
Maximum Continuous

MIL-I-23053

550°F (280°C)

Minimum Continuous

-94°F (-70°C)



PHYSICAL
PROPERTIES

Monofilament Diameter _____ **.016**
ASTM D-204

Flammability Rating _____ **FAR 25**

Recommended Cutting _____ **Hot Wire/Knife**

Colors _____ **1**

Wall Thickness _____ **.04**

Tensile Strength (Yarn) _____ **2.1**
ASTM D-2256 Lbs

Specific Gravity ASTM D-792 _____ **2.15**

Moisture Absorption _____ **<.01**
% ASTM D-570

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 _____ **>95**
ASTM D-2863