



- Meets UL 2024
- VW-1, FAR 25 Approved
- Expands Up To 150%
- Resists Gasoline And Engine Chemicals
- Cut And Abrasion Resistant
- Easy To Install

| Nominal Size | Part # | Expansion Range | | Bulk Spool | Shop Spool | Available Colors | Lbs/100' |
|--------------|---------|-----------------|--------|------------|------------|------------------|----------|
| | | Min | Max | | | | |
| 1/8" | HTN0.13 | 3/32" | 1/4" | 1,000' | 225' | 2 | 0.25 |
| 1/4" | HTN0.25 | 1/8" | 7/16" | 1,000' | 200' | 2 | 0.38 |
| 3/8" | HTN0.38 | 3/16" | 5/8" | 500' | 125' | 2 | 0.86 |
| 1/2" | HTN0.50 | 1/4" | 3/4" | 500' | 100' | 2 | 1.10 |
| 3/4" | HTN0.75 | 1/2" | 1 1/4" | 250' | 75' | 2 | 1.70 |
| 1" | HTN1.00 | 5/8" | 1 5/8" | 250' | 65' | 2 | 2.20 |
| 1 1/4" | HTN1.25 | 3/4" | 1 3/4" | 250' | 50' | 2 | 2.60 |
| 1 3/4" | HTN1.75 | 1 1/4" | 2 3/4" | 200' | 30' | 2 | 4.40 |
| 2" | HTN2.00 | 1 1/2" | 3 1/2" | 200' | 50' | 2 | 4.60 |

Put-Ups



Cut Cleanly
Hot Knife

Material HT

Ethylene-chlorotrifluoroethylene

Grade

HTN

Monofilament Diameter

.011"

Drawing Number

TF001HT-WD

Very Low Outgassing, Self-Extinguishing UL-2024 Plenum Rated Sleeving

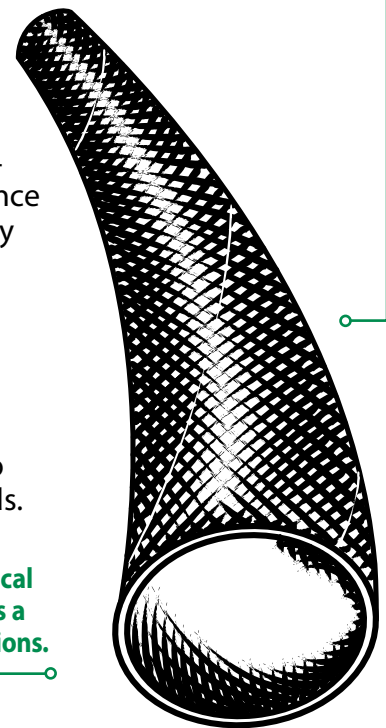
Colors Available:
TW & TB

HALAR® (HT) self-extinguishing sleeving is used where flammability, high temperature endurance and low outgassing are primary concerns. HT is braided from 11 mil ethylene chlorotrifluoroethylene (ECTFE) copolymer monofilament.

Because of its low flame spread and smoke generation properties, HT has received UL 2024 and NFPA 262 plenum listings, UL flame resistance rating of VW-1 and exceeds automotive industry requirements of FMVSS 302, as well as aviation industry requirements of FAR 25.

HT resists a wide range of corrosive chemicals and organic solvents, including strong acids, chlorine and aqueous caustics. HALAR® ECTFE also maintains useful properties on exposure to Cobalt 60 radiation at doses up to 200 megarads.

Halar's low outgassing, as well as its heat, chemical and radiation properties, make it ideal for use as a component in technologically advanced applications.



Colors Available:



White with Black Tracer (TW),
Black with White Tracer (TB).



800.323.5140 • 973.300.9242 • fax: 973.300.9409
104 Demarest Road • Sparta, NJ 07871

Halar® is a registered trademark of the Solvay Solexis Corporation.

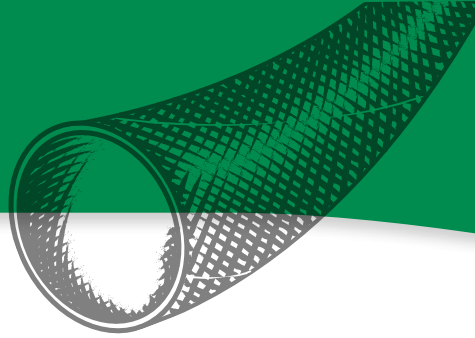


VW-1

Plenum

FAR-25





ABRASION FLAMMABILITY

Abrasion Resistance
Medium

Rating _____ FAR 25, VW-1

Abrasion Test Machine
Taber 5150

Abrasion Test Wheel
Calibrase H-18

Abrasion Test Load
500g

Room Temperature
71°F

Humidity
58%

Material Destroyed
600 Test Cycles

Pre-Test Weight
6,354.9 mg

Post-Test Weight
5,922.8 mg

Test End Loss Of Mass
Point Of Destruction
432.1 mg

CHEMICAL RESISTANCE

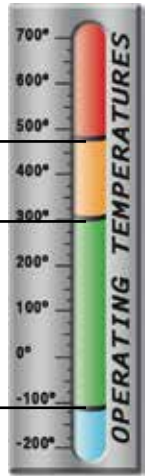
1=No Effect 4=More Affected
2=Little Effect 5=Severely Affected
3=Affected

| | |
|----------------------------------|-----|
| 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/Ketones _____ | 2 |
| UV Light _____ | 1 |
| Petroleum _____ | 1 |
| Fungus ASTM G-21 _____ | 1 |
| Halogen Free _____ | Yes |
| RoHS _____ | Yes |
| SVHC _____ | |

Melt Point
ASTM D-2117
482°F (250°C)

Maximum Continuous
Mil-I-23053
302°F (150°C)

Minimum Continuous
-103°F (-75°C)



PHYSICAL PROPERTIES

| | |
|--|-----------|
| Monofilament Diameter _____ | .011 |
| ASTM D-204 | |
| Flammability Rating _____ FAR 25, VW-1 | |
| FMVSS-302 Approved | |
| Recommended Cutting _____ | Hot Knife |
| Colors _____ | 2 |
| Wall Thickness _____ | .028 |
| Tensile Strength (Yarn) _____ | 4.3 |
| ASTM D-2256 Lbs | |
| Specific Gravity ASTM D-792 _____ | 1.68 |
| Moisture Absorption _____ | .02 |
| % ASTM D-570 | |
| Hard Vacuum Data _____ | |
| ASTM E-595 at 10-5 torr | |
| TML _____ | .18 |
| CVCM _____ | .02 |
| WVR _____ | 0 |
| Smoke D-Max _____ | 94 |
| ASTM E-662 | |
| Outgassing _____ | Low |
| Oxygen Index _____ | 64 |
| ASTM D-2863 | |

www.techflex.com