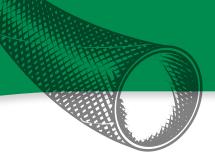
☐ Colors Available:

TW & TB





**Put-Ups** 

| Nominal<br>Size | Part<br># | Expansion Range |        | Bulk   | Shop  | Available | Lbs/ |
|-----------------|-----------|-----------------|--------|--------|-------|-----------|------|
|                 |           | Min             | Max    | Spool  | Spool | Colors    | 100′ |
| 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 |

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

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

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 chlorotriflouroethylene (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.



#### **Material HT**

Ethylene-chlorotrifluoroethylene

#### **Grade**

HTN

# **Monofilament Diameter**

.011"

### **Drawing Number**

TF001HT-WD



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



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

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



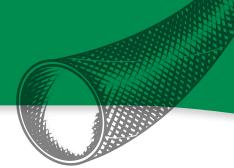


















Rating FAR 25, VW-1

**Abrasion Resistance** Medium

**Abrasion Test Machine** Taber 5150

Abrasion Test Wheel Calibrase H-18

**Abrasion Test Load** 500a

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



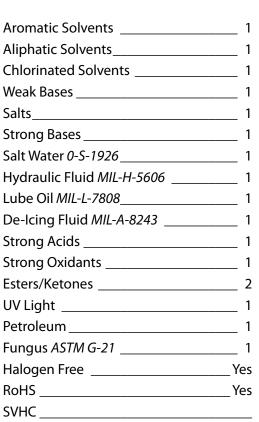


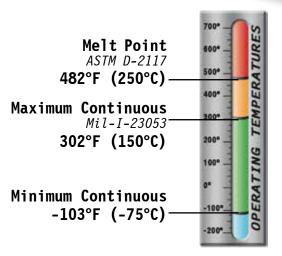
1=No Effect 2=Little Effect

4=More Affected

5=Severely Affected

3=Affected





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# PHYSICAL

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

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Users should make their own evaluation to determine the suitability of these products for their unique and specific applications.

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