



Put-Ups

<b>■</b> Complies to HL2 According	to
the Railway Standard	
DIN EN 45545-2	

- **Economical And Easy** To Install
- **Expands Up To 150%**
- Resists Gasoline And **Engine Chemicals**
- **Cut And Abrasion** Resistant
- Mil-202, FAR-25, FMVSS 302, VW-1, FR-1 Approved

AHHI
MALLE
ARK THE
Cut Cleanly

**Hot Knife** 

#### **Material**

**Polyethylene Terephthalate** 

## Grade

**FRN** 

#### **Monofilament Diameter**

.010"

#### **Drawing Number**

TF001FR-WD



# Flame Retardant, Economical Sleeving Solution

Flexo PET Flame Retardant (FR) sleeving is the perfect choice for electronic and high tech applications where flame retardance and durability are primary concerns. Ease of installation makes FR an efficient choice for long runs of wire or cable.

The addition of an organic combustion inhibitor to our standard polyethylene terephthalate gives FR an Underwriters Lab and CSA flame resistance rating of VW-1.

FR meets or exceeds automotive and aircraft engineering standards for flammability and flame retardance.

Colors Available:



Black (BK), White with Black Tracer (TW), Gray with White Tracer(GW), Black with White Tracer (TB), Black with Yellow Tracer (YS), Black with Orange Tracer (OS), Black with Red Tracer (SP).

### **Colors Available:** BK,TW,GW,TB,YS,OS,SP



















**Abrasion Resistance** Medium

**Abrasion Test Machine Taber 5150** 

Abrasion Test Wheel Calibrase H-18

Abrasion Test Load 500a

Room Temperature 80°F

Humidity 70%

Minor Scuffing Is Visible **100 Test Cycles** 

Several Broken Strands And Small Hole Developing **500 Test Cycles** 

**Material Destroyed** 700 Test Cycles

**Pre-Test Weight** 4124.0 mg

Post-Test Weight 3884.7 mg

**Test End Loss Of Mass Point Of Destruction** 239.3 mg

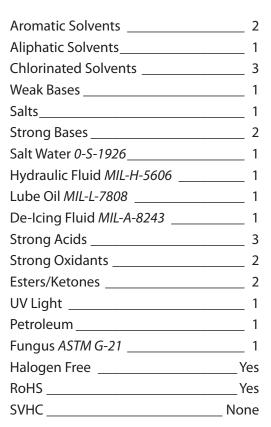


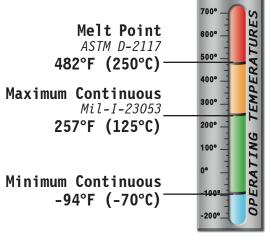


1=No Effect 2=Little Effect 5=Severely Affected

4=More Affected

3=	Αf	fe	C	te	C
3=	Αt	te	C	te	C





# PHYSICAL **PROPERTIES**

Monofilament Diameter ASTM D-204	.010″
Flammability Rating FMVSS-302 Approved	VW-1
Recommended Cutting	_Hot Knife
Colors	7
Wall Thickness	
Tensile Strength (Yarn) ASTM D-2256 Lbs	5
Specific Gravity ASTM D-792	1.38
Moisture Absorption% ASTM D-570	.12
Hard Vacuum Data ASTM E-595 at 10-5 torr	
TML	19
CVCM	04
WVR	
Smoke D-Max ASTM E-662	275
Outgassing	Med
Oxygen Index	31

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