



Put-Ups

<b>Economi</b>		cal	And	Easy
To	Instal	l		-

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

Nominal	Part	Expansion Range		Bulk	Shop	Available	Lbs/
Size	#	Min	Max	Spool	Spool	Colors	100′
1/8"	FRN0.13	3/32"	1/4"	1,000′	225′	7	0.16
1/4"	FRN0.25	1/8"	7/16"	1,000′	200′	7	0.24
3/8"	FRN0.38	3/16"	5/8"	500′	125′	7	0.57
1/2"	FRN0.50	1/4"	3/4"	500′	100′	7	0.72
3/4"	FRN0.75	1/2"	1 1/4"	250′	75′	7	1.07
1"	FRN1.00	5/8"	1 5/8"	250′	65′	7	1.34
1 1/4"	FRN1.25	3/4"	1 3/4"	250′	50′	7	1.60
1 1/2"	FRN1.50	1″	2 1/2"	200′	40′	7	1.96
1 3/4"	FRN1.75	1 1/4"	2 3/4"	200′	30′	7	2.70
2″	FRN2.00	1 1/2"	3 1/2"	200′	50′	7	3.30
2 1/2"	FRN2.50	1 3/4"	4 1/2"	200′	50′	7	3.80
3"	FRN3.00	2 1/2"	4 3/4"	100′	50′	7	4.00
3 End Con	struction						
1/4"	FR30.25TB	1/8"	3/8"	1,000′	200′	TB, GW, TW	0.39

## **Cut Cleanly**

## 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 terepthalate gives FR an Underwriters Lab and CSA flame resistance rating of VW-1.

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



**Polyethylene Terepthalate** 

**Hot Knife** 

Grade

**Material** 

**FRN** 

**Monofilament Diameter** 

.010"

**Drawing Number** 

TF001FR-WD

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).















Abrasion Resistance Medium

**Abrasion Test Machine Taber 5150** 

Abrasion Test Wheel Calibrase H-18

Abrasion Test Load 500g

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

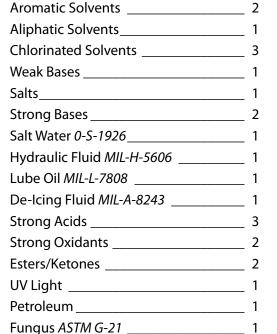




1=No Effect 2=Little Effect

4=More Affected 5=Severely Affected

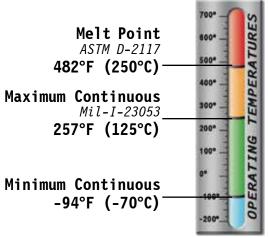
3=Affected



Halogen Free \_\_\_\_\_Yes

RoHS \_\_\_\_\_Yes

SVHC \_\_\_\_\_None



www.techflex.com

## PHYSICAL **PROPERTIES**

Monofilament Diameter ASTM D-204	010
Flammability Rating FMVSS-302 Approved	VW-1
Recommended Cutting	_Hot Knife
Colors	7
Wall Thickness	.025
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	.06
Smoke D-Max ASTM E-662	
Outgassing	Med
Oxygen Index	31

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