FLEXO
FLAME RETARDANT

- **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**
- **Halogen Free**

Cut Cleanly
Hot Knife

Material
Polyethylene Terepthalate

Grade
FRN

Monofilament Diameter
.010"

Drawing Number
TF001FR-WD

Put-Ups

Nominal Size	Part #	Expansion Range		Bulk Spool	Shop Spool	Available Colors	Lbs/ 100'
		Min	Max				
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 Construction							
1/4"	FR30.25TB	1/8"	3/8"	1,000'	200'	TB, GW, TW	0.39

Flame Retardant, Economical Sleeving Solution

Flexo® PET Flame Retadant (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.

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

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

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).

ABYC — *Setting Standards for Safer Boating* FAR-25 VW-1 UL CSA RoHS Compliant

FLEXO FLAME RETARDANT

⚙ ABRASION

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

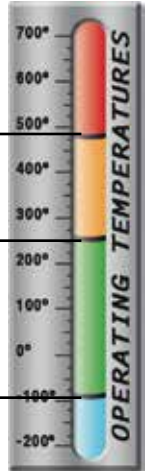**Test End Loss Of Mass Point Of Destruction**
239.3 mg

🔥 FLAMMABILITY

Rating_____ VW-1

⚗ CHEMICAL RESISTANCE

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

Aromatic Solvents	2
Aliphatic Solvents	1
Chlorinated Solvents	3
Weak Bases	1
Salts	1
Strong Bases	2
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	3
Strong Oxidants	2
Esters/Keytones	2
UV Light	1
Petroleum	1
Fungus ASTM G-21	1
Halogen Free	Yes
RoHS	Yes
SVHC	None

Melt Point
ASTM D-2117
482°F (250°C)

Maximum Continuous
Mil-I-23053
257°F (125°C)

Minimum Continuous
-94°F (-70°C)

OPERATING TEMPERATURES

🔍 PHYSICAL PROPERTIES

Monofilament Diameter_____.010
  ASTM D-204

Flammability Rating_____ VW-1
  FMVSS-302 Approved

Recommended Cutting_____Hot Knife

Colors_____ 7

Wall Thickness_____ .025

Tensile Strength (Yarn)_____5
  ASTM D-2256 Lbs

Specific Gravity ASTM D-792_____ 1.38

Moisture Absorption_____.1-.2
  % ASTM D-570

Hard Vacuum Data_____
  ASTM E-595 at 10-5 torr

TML_____ .19

CVCM_____ .04

WVR_____ .06

Smoke D-Max_____275
  ASTM E-662

Outgassing_____ Med

Oxygen Index_____ 31
  ASTM D-2863