

FLEXO® FR

- 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 Terephthalate

Grade

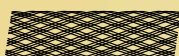
FRN

Monofilament Diameter

.010"

Drawing Number

TF001FR-WD



TECHFLEX
Braided Sleeving Products

www.techflex.com

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Put-Ups

Nominal Size	Part #	Expansion Range		Bulk Spool	Shop Spool	Retail	Clam	Bag	Available Colors	Lbs/ 100'
		Min	Max							
1/8"	FRN0.13	3/32"	1/4"	1,000'	225'	110'	25'	10'	5	0.16
1/4"	FRN0.25	1/8"	7/16"	1,000'	200'	100'	25'	10'	5	0.24
3/8"	FRN0.38	3/16"	5/8"	500'	125'	60'	25'	10'	5	0.57
1/2"	FRN0.50	1/4"	3/4"	500'	100'	50'	25'	10'	5	0.72
3/4"	FRN0.75	1/2"	1 1/4"	250'	75'	35'	25'	10'	5	0.87
1"	FRN1.00	5/8"	1 5/8"	250'	65'	25'	n/a	10'	5	1.34
1 1/4"	FRN1.25	3/4"	1 3/4"	250'	50'	25'	n/a	10'	5	1.60
1 1/2"	FRN1.50	1"	2 1/2"	200'	40'	25'	n/a	10'	4	1.96
1 3/4"	FRN1.75	1 1/4"	2 3/4"	200'	30'	25'	n/a	10'	5	2.70
2"	FRN2.00	1 1/2"	3 1/2"	200'	50'	25'	n/a	10'	5	3.30
2 1/2"	FRN2.50	1 3/4"	4 1/2"	200'	50'	25'	n/a	10'	5	3.80
3"	FRN3.00	2 1/2"	4 3/4"	100'	50'	25'	n/a	10'	4	4.00
3 End Construction										
1/4"	FR30.25TB	1/8"	3/8"	1,000'	200'				TB	0.39

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.

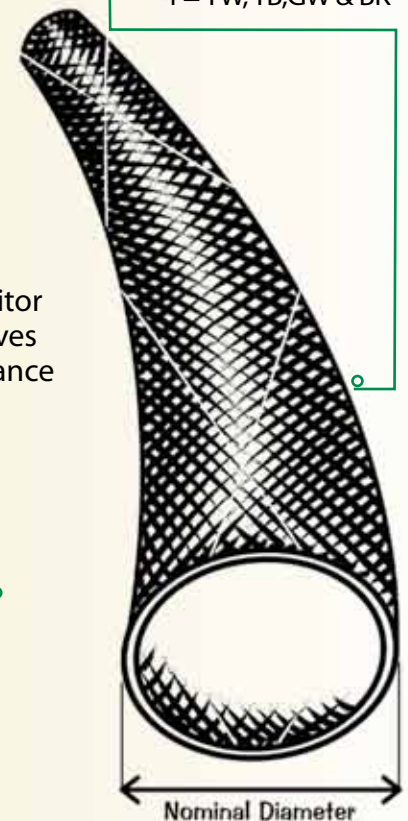
Colors Available:



Spyder (SP) - Custom Color, White with Black Tracer (TW), Black with White Tracer (TB), Gray with White Tracer (GW), and Black with No Tracer (BK).

Colors Available:

5 = SP, TW, TB, GW & BK
4 = TW, TB, GW & BK



FLEXO® FR



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



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)

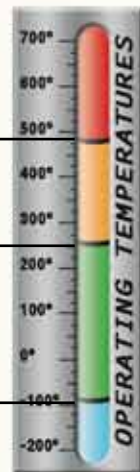
Maximum Continuous

Mil-I-23053

257°F (125°C)

Minimum Continuous

-94°F (-70°C)



PHYSICAL PROPERTIES

Monofilament Diameter _____ **.010**
ASTM D-204

Flammability Rating _____ **VW-1**
FMVSS-302 Approved

Recommended Cutting _____ **Hot Knife**

Colors _____ **5**

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