

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



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'	4	0.16
1/4"	FRN0.25	1/8"	7/16"	1,000'	200'	100'	25'	10'	4	0.24
3/8"	FRN0.38	3/16"	5/8"	500'	125'	60'	25'	10'	4	0.57
1/2"	FRN0.50	1/4"	3/4"	500'	100'	50'	25'	10'	4	0.72
3/4"	FRN0.75	1/2"	1 1/4"	250'	75'	35'	25'	10'	4	0.87
1"	FRN1.00	5/8"	1 5/8"	250'	65'	25'	n/a	10'	4	1.34
1 1/4"	FRN1.25	3/4"	1 3/4"	250'	50'	25'	n/a	10'	4	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'	4	2.70
2"	FRN2.00	1 1/2"	3 1/2"	200'	50'	25'	n/a	10'	4	3.30
2 1/2"	FRN2.50	1 3/4"	4 1/2"	200'	50'	25'	n/a	10'	4	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.

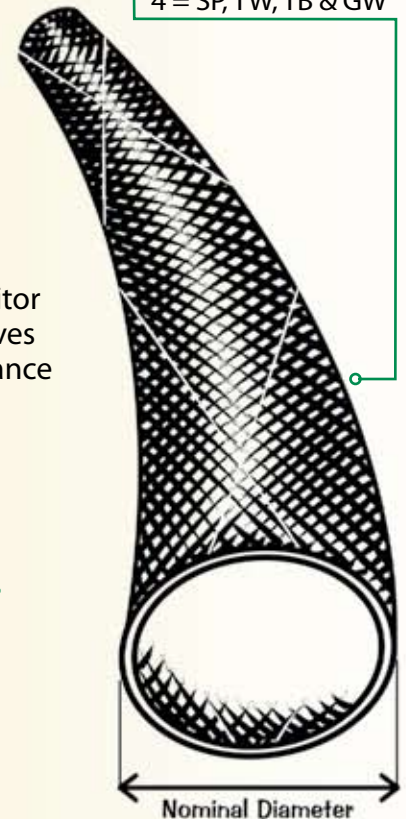
FR meets or exceeds automotive and aircraft engineering standards for flammability and flame retardance.

Colors Available:



Black with Red Tracer (SP),
White with Black Tracer (TW),
Black with White Tracer (TB) and
Gray with White Tracer (GW).

Colors Available:
4 = SP, TW, TB & GW





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

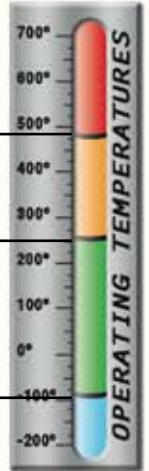
1=No Effect 4=More Affected
 2=Little Effect 5=Severely Affected
 3=Affected

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
<i>ASTM D-204</i>	
Flammability Rating _____	VW-1
<i>FMVSS-302 Approved</i>	
Recommended Cutting _____	Hot Knife
Colors _____	4
Wall Thickness _____	.025
Tensile Strength (Yarn) _____	5
<i>ASTM D-2256 Lbs</i>	
Specific Gravity <i>ASTM D-792</i> _____	1.38
Moisture Absorption _____	.1-.2
<i>% ASTM D-570</i>	
Hard Vacuum Data <i>ASTM E-595 at 10-5 torr</i>	
TML _____	.19
CVCM _____	.04
WVR _____	.06
Smoke D-Max _____	275
<i>ASTM E-662</i>	
Outgassing _____	Med
Oxygen Index _____	31
<i>ASTM D-2863</i>	

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