FLEXO FLAME RETARDANT

ADVANCED ENGINEERING
Technical Data Sheet

- 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

Put-Ups

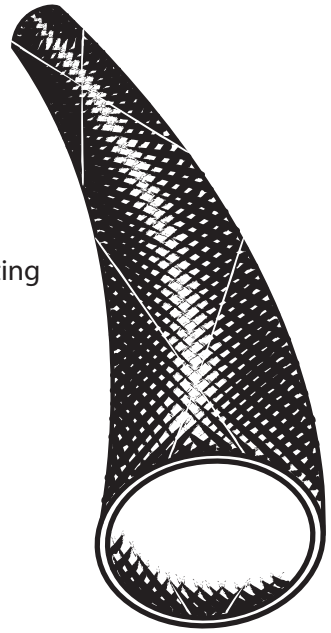
Nominal Size	Part #	Expansion Range		Bulk Spool	Shop Spool	Available Colors	Lbs/ 100′
		Min	Max				
1/8″	FRN0.13	3/32″	1/4″	1,000′	225′	7	0.16
1/4″	FRN0.25	1/8″	7/16″	1,000′	200′	7	0.24
3/8″	FRN0.38	3/16″	5/8″	500′	125′	7	0.57
1/2″	FRN0.50	1/4″	3/4″	500′	100′	7	0.72
3/4″	FRN0.75	1/2″	1 1/4″	250′	75′	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 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



Material
Polyethylene Terepthalate

Grade
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).

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ABYC Setting Standards for Safer Boating FAR-25 VW-1 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

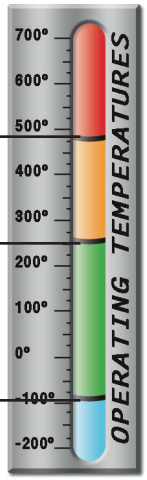
1=No Effect 4=More Affected
2=Little Effect 5=Severely Affected
3=Affected

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/Ketones	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 *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*	.1-.2
Hard Vacuum Data *ASTM E-595 at 10-5 torr*	
TML	.19
CVCM	.04
WVR	.06
Smoke D-Max *ASTM E-662*	275
Outgassing	Med
Oxygen Index *ASTM D-2863*	31