



## FLEXO® FLAME RETARDANT PLUS

### AN IDEAL SLEEVING FOR PROJECTS WHEN A HOT KNIFE IS INACCESSIBLE

### SPECIALIZED LIGHTWEIGHT RESIN · EXPANDS UP TO 150%

FLEXO® FR PLUS sleeving for electronic and high-tech applications incorporates the specialized resin coating and fray-resistance of FLEXO® PET Plus with the added benefit of flame retardant protection. It cuts easily and cleanly with ordinary scissors, making FLEXO® FR Plus ideal for projects when a hot knife is inaccessible. It has a wide operating temperature range resistant to chemical degradation, UV radiation and abrasion. Its organic combustion inhibitor additionally gives FLEXO® FR Plus a flame resistance rating of VW-1. Also it complies to HL2 according to railway standard DIN EN 45545-2.

#### SIZING CHART

Nominal Size	Part #	Min Expansion	Max Expansion	*Put-Ups		Available Colors	Lbs/100'
				M	L		
1/8"	FRP0.13TB	1/16"	1/4"	200'	1,000'	1	0.20
1/4"	FRP0.25TB	1/8"	7/16"	200'	1,000'	1	0.30
3/8"	FRP0.38TB	3/16"	1/2"	125'	500'	1	0.60
1/2"	FRP0.50TB	1/4"	3/4"	100'	500'	1	0.80
3/4"	FRP0.75TB	1/2"	1 1/4"	75'	250'	1	1.20
1 1/4"	FRP1.25TB	3/4"	1 3/4"	50'	250'	1	1.60
1 1/2"	FRP1.50TB	1"	2 1/2"	40'	250'	1	2.10
1 3/4"	FRP1.75TB	1 1/4"	2 3/4"	30'	250'	1	2.90
2"	FRP2.00TB	1 3/4"	3 5/8"	50'	200'	1	3.40
2 1/2"	FRP2.50TB	2"	3 7/8"	50'	200'	1	3.50

\*Put-Ups: "M" = Shop Spool and "L" = Bulk Spool



#### COLORS



Black w/White Tracer (TB)

#### FEATURES

Material	Polyethylene Terephthalate
Grade	FRP
Monofilament Diameter	.010"
Drawing Number	TF001FRP-WD
Cutting	Scissors/Hot Knife

#### CERTIFICATIONS




**FAR-25**

**DIN EN 45545-2**

**VW-1**



## ABRASION

Abrasion Resistance	<b>MEDIUM</b>
Abrasion Test Machine	Taber 5150
Abrasion Test Wheel	Calibrase H-18
Abrasion Test Load	500g
Room Temperature	72°F
Humidity	46%
Threads Damaged	150 Test Cycles
Small Holes	350 Test Cycles
Material Destroyed	600 Test Cycles
Pre-Test Weight	6,550 mg
Post-Test Weight	6,055 mg
Test End Loss Of Mass Point Of Destruction	495 mg

## PHYSICAL PROPERTIES

Monofilament Diameter (ASTM D-204)	.010"
Flammability Rating (FMVSS-302 Approved)	VW-1
Recommended Cutting	Scissors/Hot Knife
Colors	1
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	Medium
Oxygen Index (ASTM D-2863)	31

## FLAMMABILITY

Rating	UL VW-1
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## OPERATING TEMPERATURES

Melt Point (ASTM D-2117)	482°F / 250°C
Maximum Continuous (Mil-I-23053)	257°F / 125°C
Minimum Continuous (Mil-I-23053)	-94°F / -70°C

## CHEMICAL RESISTANCE

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