



## FLEXO® ULTIMATE FR

### MEETS MATERIAL SPECS FOR MAJOR AIRLINE LIGHTER WEIGHT THAN STANDARD TIGHT WEAVE · RESISTS GASOLINE & ENGINE CHEMICALS

FLEXO® ULTIMATE FR (UFR) sleeving is the ultimate choice for high tech applications such as aerospace, telecom, and military where flame retardance and durability are a top priority. All of the same great features of our Flexo FR with new additional engineering to have it meet more specs and more standards. The high expansion rate of UFR makes for easy and efficient installs. Chemical resistant, high temperature stabile, and abrasion resistant.

#### SIZING CHART

Nominal Size	Part #	Wall Thickness	Min Expansion	Max Expansion	*Put-Ups		Available Colors	Lbs/100'
					M	L		
¼"	UFR0.25TB	.022"	⅛"	7/16"	200'	1,000'	1	0.26
⅜"	UFR0.38TB	.022"	¼"	⅝"	125'	500'	1	0.57
½"	UFR0.50TB	.022"	⅜"	15/16"	100'	500'	1	0.72
¾"	UFR0.75TB	.022"	½"	1¼"	75'	250'	1	1.07
1"	UFR1.00TB	.022"	⅝"	1¾"	65'	250'	1	1.34
1¼"	UFR1.25TB	.023"	¾"	1⅞"	50'	250'	1	1.60

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

#### FEATURES

Material	Modified Polymer
Grade	UFR
Monofilament Diameter	.010"
Drawing Number	TF001UFR-WD
Cutting	Hot Knife

#### COLORS



Black w/White Tracer (TB)

#### CERTIFICATIONS





## 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	59%
Fraying Is Visible	250 Test Cycles
Several Broken Strands	400 Test Cycles
Material Destroyed	500 Test Cycles
Pre-Test Weight	3.65 g
Post-Test Weight	3.36 g
Test End Loss Of Mass Point Of Destruction	0.29 g

## PHYSICAL PROPERTIES

Monofilament Diameter (ASTM D-204)	.010"
Flammability Rating (FMVSS-302 Approved)	VW-1
Recommended Cutting	Hot Knife
Colors	1
Wall Thickness	.022"-.023"
Tensile Strength (Yarn) (ASTM D-2256 Lbs)	4
Specific Gravity (ASTM D-792)	
Moisture Absorption % (ASTM D-570)	
Hard Vacuum Data (ASTM E-595 at 10-5 torr)	
TML	
CVCM	
WVR	
Smoke D-Max (ASTM E-662)	
Outgassing	
Oxygen Index (ASTM D-2863)	

## FLAMMABILITY

Rating	UL VW-1
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## OPERATING TEMPERATURES

Melt Point (ASTM D-2117)	545°F / 285°C
Maximum Continuous (Mil-I-23053)	°F / °C
Minimum Continuous (Mil-I-23053)	°F / °C

## CHEMICAL RESISTANCE

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

Aromatic Solvents	
Aliphatic Solvents	
Chlorinated Solvents	
Weak Bases	
Salts	
Strong Bases	
Salt Water (O-S-1926)	
Hydraulic Fluid (MIL-H-5606)	
Lube Oil (MIL-L-7808)	
De-Icing Fluid (MIL-A-8243)	
Strong Acids	
Strong Oxidants	
Esters/Ketones	
UV Light	
Petroleum	
Fungus (ASTM G-21)	
Halogen Free	Yes
RoHS	Yes
SVHC	