

FLEXO® TIGHT WEAVE FR TIGHT BRAID FOR FULLER COVERAGE · DIN EN 45545-2 CERTIFIED MEETS MATERIAL SPECS FOR MAJOR AIRLINES

FLEXO® TIGHT WEAVE FLAME RETARDANT sleeving was developed by and for aircraft manufacturers as a replacement for the standard grade FR. This sleeving material is constructed from tightly braided 9 mil flame retardant monofilament. The result is fuller coverage over wire harnesses. This allows for increased abrasion protection, which is a critical issue in the aviation industry. The 9 mil monofilament is used instead of 10 mil in order to lessen the additional weight that results when the monofilament is tightly braided into sleeving material. We manufacture additional diameters to accommodate various wire harnesses up to 3" in diameter.

SIZING CHART

Nominal Size	Part #	Min Expansion	Max Expansion	*Put-Ups		Available Colors	Lbs/100'
				M	L		
1/8"	F9T0.13	1/16"	7/32"	225'	1,000'	2	0.27
1/4"	F9T0.25	9/64"	13/32"	200'	1,000	2	0.32
5/16"	F9T0.31	3/16"	7/16"	125'	500'	2	0.48
1/2"	F9T0.50	9/32"	5/8"	100'	500'	2	0.60
9/16"	F9T0.56	3/8"	5/8"	100'	500'	2	0.63
3/4"	F9T0.75	1/2"	1"	75'	500'	2	0.97
1"	F9T1.00	5/8"	1 1/4"	65'	250'	2	1.26
1 1/4"	F9T1.25	3/4"	1 3/4"	50'	250'	2	2.03
1 1/2"	F9T1.50	1"	1 7/8"	40'	250'	2	2.32
1 3/4"	F9T1.75	1 5/16"	2 3/16"	30'	250'	2	2.61
2"	F9T2.00	1 7/16"	2 3/8"	50'	200'	2	3.02
2 1/4"	F9T2.25	1 3/4"	2 11/16"	50'	200'	2	3.04
2 1/2"	F9T2.50	1 7/8"	3"	50'	200'	2	3.69

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



FEATURES

Material	Polyethylene Terephthalate
Grade	F9T
Monofilament Diameter	.009"
Drawing Number	TF001F9T-WD
Cutting	Hot Knife

COLORS



White w/Black Tracer (TW), Black w/White Tracer (TB)

CERTIFICATIONS



ABRASION

Abrasion Resistance	MEDIUM
Abrasion Test Machine	Taber 5150
Abrasion Test Wheel	Calibrase H-18
Abrasion Test Load	500g
Room Temperature	°F
Humidity	%
Very Minor Scuffing	Test Cycles
Scuffing & Several Broken Strands	Test Cycles
Material Destroyed	Test Cycles
Pre-Test Weight	mg
Post-Test Weight	mg
Test End Loss Of Mass Point Of Destruction	mg

PHYSICAL PROPERTIES

Monofilament Diameter (ASTM D-204)	.009"
Flammability Rating (FMVSS-302 Approved)	FAR-25
Recommended Cutting	Hot Knife
Colors	2
Wall Thickness	.023"
Tensile Strength (Yarn) (ASTM D-2256 Lbs)	4.5
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	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