



## FLEXO<sup>®</sup> THIN

### ULTRA THIN, ULTRA LIGHT FOR SPECIALIZED FIBER APPLICATIONS THE MANAGEMENT OF LARGE BUNDLES OF VERY FINE WIRING & OPTICAL CABLES

Braided from ultra fine nylon monofilament fibers, Flexo<sup>®</sup> Thin was created for applications where weight and wall thickness play a critical role. This material is strong enough to bundle multiple cables and fibers while naturally conforming to these type applications. Many of today's micro optics and precision electronic harnesses use Flexo<sup>®</sup> Thin to flexibly and attractively manage and route tiny assemblies.

#### SIZING CHART

Nominal Size	Part #	Wall Thickness	Min Expansion	Max Expansion	*Put-Ups		Available Colors	Lbs/100'
					M	L		
1/16"	FTN0.06CL	.005"	1/16"	3/16"	200'	1,000'	1	0.013
1/4"	FTN0.25CL	.008"	1/8"	1"	200'	500'	1	0.043

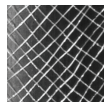
\*Put-Ups: "M" = Shop Spool and "L" = Bulk Spool



#### FEATURES

Material	Nylon
Grade	FTN
Monofilament Diameter	.002"-.003"
Drawing Number	TF001FTN-WD
Cutting	Hot Knife

#### COLORS



Clear (CL)

#### CERTIFICATIONS





## ABRASION

Abrasion Resistance	
Abrasion Test Machine	Taber 5150
Abrasion Test Wheel	Calibrase H-18
Abrasion Test Load	500g
Room Temperature	°F
Humidity	%
Several Strands Broken	Test Cycles
Wear Pattern Continues	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)	.002"-.003"
Flammability Rating	
Recommended Cutting	Hot Knife
Colors	1
Wall Thickness	.005"-.008"
Tensile Strength (Yarn) (ASTM D-2256 Lbs)	NA
Specific Gravity (ASTM D-792)	1.14
Moisture Absorption % (ASTM D-570)	2.5
Hard Vacuum Data (ASTM E-595 at 10-5 torr)	NA
TML	1.10
CVCM	.01
WVR	.69
Smoke D-Max (ASTM E-662)	High
Outgassing	NA
Oxygen Index (ASTM D-2863)	22

## FLAMMABILITY

Rating	
--------	--

## OPERATING TEMPERATURES

Melt Point (ASTM D-2117)	428°F / 220°C
Maximum Continuous (Mil-I-23053)	248°F / 120°C
Minimum Continuous (Mil-I-23053)	-49°F / -45°C

## CHEMICAL RESISTANCE

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

Aromatic Solvents	1
Aliphatic Solvents	1
Chlorinated Solvents	1
Weak Bases	1
Salts	1
Strong Bases	2
Salt Water (O-S-1926)	1
Hydraulic Fluid (MIL-H-5606)	1
Lube Oil (MIL-L-7808)	1
De-Icing Fluid (MIL-A-8243)	1
Strong Acids	5
Strong Oxidants	5
Esters/Ketones	1
UV Light	2
Petroleum	2
Fungus (ASTM G-21)	3
Halogen Free	Yes
RoHS	Yes
SVHC	None