



- Excellent Mechanical Properties And Chemical Resistance
- Property Retention Over A Wide Temperature Range
- Cut and Abrasion Resistant
- Low Moisture Regain

Nominal Size	Part #	Wall Thickness	Expansion Range		Bulk Spool	Shop Spool	Available Colors	Lbs/100'
			Min	Max				
1/8"	VEN0.13NT	0.25"	7/64"	9/64"	500'	100'	Natural (NT)	0.36
1/4"	VEN0.25NT	0.25"	13/64"	19/64"	500'	100'	Natural (NT)	0.72

Put-Ups

A Unique Combination Of Properties For Demanding Applications

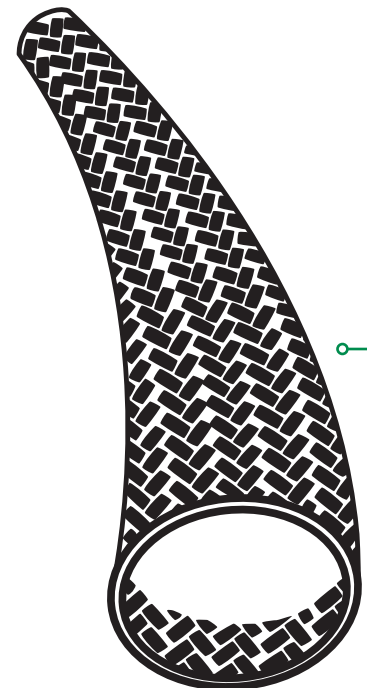
VECTRAN® (VE) is a high-performance multifilament yarn spun from liquid crystal polymer. Pound for pound Vectran fiber is five times stronger than steel and ten times stronger than aluminum, which makes it the material of choice in demanding applications where other fibers fail to meet performance requirements.

Our product also demonstrates minimal moisture absorption, outstanding cut and abrasion resistance, high dielectric strength, and melt temperature of 625°F. Vectran sleeving is used in a wide range of applications, including aerospace, high tech research, and industrial protection.

- Colors Available:
Natural (NT)



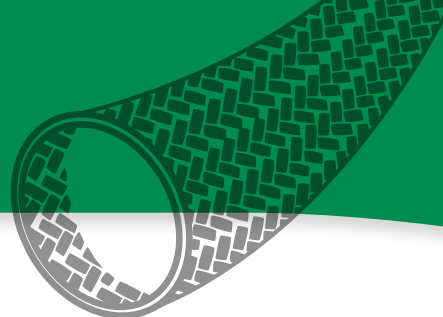
Cut Cleanly
Flexo Aramid Shears



Vectran's® molecular structure not only makes it one of the world's strongest materials but Vectran is also invisible in MRI systems.

Material	Liquid Crystal Polymer
Grade	VEN
Wall Thickness	.025"





ABRASION

Abrasion Resistance
High

Abrasion Test Machine
Taber 5150

Abrasion Test Wheel
Calibrase H-18

Abrasion Test Load
500g

Room Temperature
77°F

Humidity
72%

First Broken Filament
200 Test Cycles

Approximately
10 Broken Filaments
500 Test Cycles

Material Destroyed -
Very Visible Hole
in Material

1,000 Test Cycles

Pre-Test Weight
8,654.4 mg

Post-Test Weight
8,133.9 mg

Test End Loss Of Mass
Point Of Destruction
520.5 mg

FLAMMABILITY

Rating _____ Self-Extinguishing

CHEMICAL RESISTANCE

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

Aromatic Solvents _____	N/A
Aliphatic Solvents _____	N/A
Chlorinated Solvents _____	1
Weak Bases _____	N/A
Salts _____	N/A
Strong Bases _____	N/A
Salt Water 0-S-1926 _____	1
Hydraulic Fluid MIL-H-5606 _____	1
Lube Oil MIL-L-7808 _____	1
De-Icing Fluid MIL-A-8243 _____	N/A
Strong Acids _____	N/A
Strong Oxidants _____	N/A
Esters/Keytones _____	N/A
UV Light _____	N/A
Petroleum _____	1
Fungus ASTM G-21 _____	N/A
RoHS _____	Yes

PHYSICAL PROPERTIES

Monofilament Diameter _____ NA
ASTM D-204

Flammability Rating_Self-Extinguishing

Cutting _____ Flexo Aramid Shears

Colors _____ 1

Wall Thickness _____ .025"

Tensile Strength (Yarn) _____ 20
ASTM D-2256 Lbs

Specific Gravity ASTM D-792 _____ 1.4

Moisture Absorption _____ <.005
% ASTM D-570

Hard Vacuum Data _____ N/A
ASTM E-595 at 10-5 torr

TML _____ .21

CVCM _____ .00

WVR _____ .00

Smoke D-Max _____ N/A
ASTM E-662

Outgassing _____ Med

Oxygen Index _____ >30
ASTM D-2863

Melt Point
ASTM D-2117
625°F (329°C)

