



- 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)



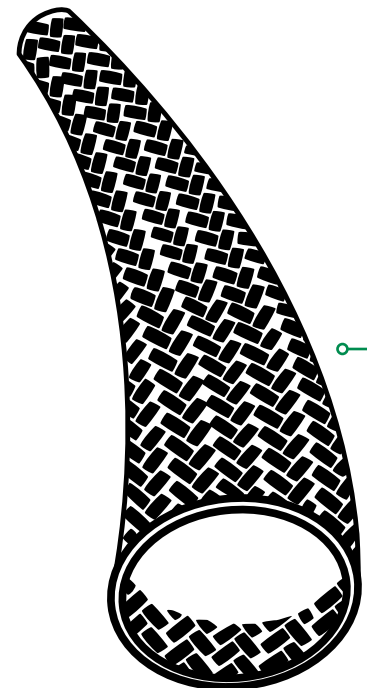
Cut Cleanly  
Flexo Aramid Shears

Material  
Kevlar® Aramid Fibers

Grade  
VEN

Wall Thickness  
.025"

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

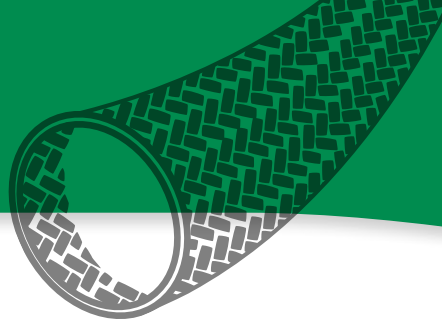


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Kevlar® is a registered trademark of E.I. du Pont de Nemours and Company.





## ABRASION

**Abrasion Resistance**  
**High**

**Abrasion Test Machine**  
**Taber 5150**

**Abrasion Test Wheel**  
**Calibrase H-18**

**Abrasion Test Load**  
**500g**

## CHEMICAL RESISTANCE

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

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

## 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 \_\_\_\_\_  
*ASTM E-595 at 10-5 torr*  
TML \_\_\_\_\_ .21  
CVCM \_\_\_\_\_ .00  
WVR \_\_\_\_\_ .00  
Smoke D-Max \_\_\_\_\_  
*ASTM E-662*  
Outgassing \_\_\_\_\_ Med  
Oxygen Index \_\_\_\_\_ >30  
*ASTM D-2863*