

- 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	Kgs/100m
			Min	Max				
3,2mm	VEN0.13NT	0,6mm	2,8mm	3,6mm	152,4m	30,5m	Natural (NT)	0,54
6,4mm	VEN0.25NT	0,6mm	5,2mm	7,5mm	152,4m	30,5m	Natural (NT)	1,07

Put-Ups

### A Unique Combination Of Properties For Demanding Applications

VECTRAN® (VEN) 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)



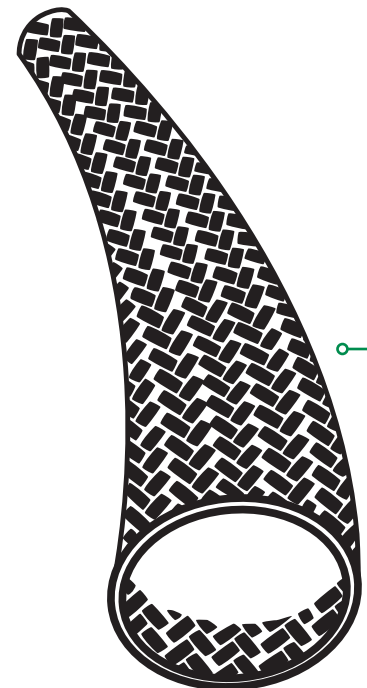
Cut Cleanly  
Flexo® Aramid Shears

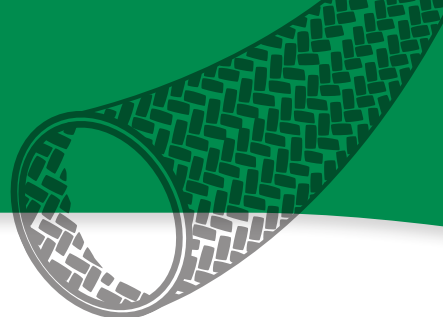
Material  
Liquid Crystal Polymer

Grade  
VEN

Wall Thickness  
0,64mm

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





## ABRASION

**Abrasion Resistance**  
Very High

**Abrasion Test Machine**  
Taber 5150

**Abrasion Test Wheel**  
Calibrase H-18

**Abrasion Test Load**  
500g

## FLAMMABILITY

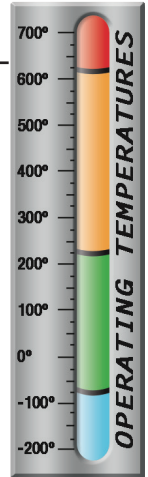
Rating \_\_\_\_\_ Self-Extinguishing

## 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

**Melt Point**  
ASTM D-2117  
625°F (329°C)



## PHYSICAL PROPERTIES

Monofilament Diameter _____ NA	ASTM D-204
Flammability Rating_Self-Extinguishing	
Cutting _____ Flexo Aramid Shears	
Colors _____	1
Wall Thickness _____	0,64mm
Tensile Strength (Yarn) _____	20
	ASTM D-2256 Lbs
Specific Gravity ASTM D-792 _____	1,4
Moisture Absorption _____	<0,005
	% ASTM D-570
Hard Vacuum Data _____	N/A
	ASTM E-595 at 10-5 torr
TML _____	0,21
CVCM _____	0,00
WVR _____	0,00
Smoke D-Max _____	N/A
	ASTM E-662
Outgassing _____	Med
Oxygen Index _____	>30
	ASTM D-2863