

ADVANCED ENGINEERING

Technical Data Sheet

vectran

VECTRAN

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



Cut Cleanly
Kevlar Shears

Material

Liquid Crystal Polymer

Grade

VEN

Wall Thickness

.025"

Put-Ups

Nominal Size	Part #	Expansion Range		Wall Thickness	Bulk Spool	Shop Spool	Available Colors	Lbs/100'
		Min	Max					
1/8"	VEN0.13NT	7/64"	9/64"	0.025"	500'	100'	Natural	0.36
1/4"	VEN0.25NT	13/64"	19/64"	0.025"	500'	100'	Natural	0.72

A Unique Combination Of Properties For Demanding Applications

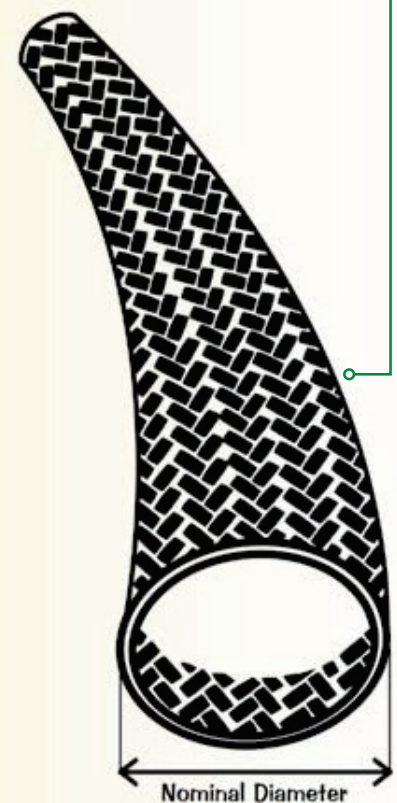
VECTRAN® (VE) is a high-performance multifilament yarn spun from liquid crystal polymer. Pound for pound Vectran fiber is five times stronger than steel and ten times stronger than aluminum, which makes it the material of choice in demanding applications where other fibers fail to meet performance requirements.

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)

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



TECHFLEX
Braided Sleeving Products

www.techflex.com

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VECTRAN



Abrasion Resistance
High

Abrasion Test Machine
Taber 5150

Abrasion Test Wheel
Calibrase H-18

Abrasion Test Load
500g



Rating _____ Self Extinguishing

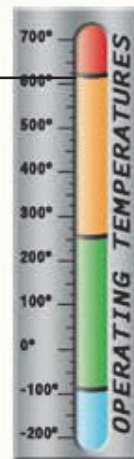


Chemical Resistance

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 *O-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 _____

Melt Point
ASTM D-2117
625°F (330°C)



PHYSICAL PROPERTIES

Monofilament Diameter _____ NA
ASTM D-204
Flammability Rating _____ Self Extinguishing
Recommended Cutting _____ Kevlar 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