ADVANCED ENGINEERING **Technical Data Sheet**

VECTRAN

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







Nominal

Size

1/8"

1/4"

Part

VEN0.13NT

VEN0.25NT

Expansion Range

13/64" 19/64"

Max

9/64"

Min

7/64″

Wall

Thickness

0.025"

0.025"

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.

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

- Colors Available: Natural (NT)

Vaciran

Available Colors

Natural

Natural

Lbs/ 100'

0.36

0.72

Put-Ups

Bulk

Spool

500′

500'

Shop Spool

100'

100'







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Abrasion Resistance High

Abrasion Test Machine Taber 5150

Abrasion Test Wheel Calibrase H-18

Abrasion Test Load 500g



Rating

Chemical

Resistance

1=No Effect 4=More Affected

2=Little Effect 5=Severely Affected

Self Extinguishing

3=Affected
Aromatic Solvents
Aliphatic Solvents
Chlorinated Solvents1
Weak Bases
Salts
Strong Bases
Salt Water 0-S-19261
Hydraulic Fluid <i>MIL-H-5606</i> 1
Lube Oil <i>MIL-L-7808</i> 1
De-Icing Fluid MIL-A-8243
Strong Acids
Strong Oxidants
Esters/Keytones
UV Light
Petroleum1
Fungus ASTM G-21
Halogen Free
RoHS
SVHC

PROPERTIES

Monofilament Diameter ASTM D-204	NA	
Flammability RatingSelf Extinguishing		
Recommended CuttingKevlar Shears		
Colors	1	
Wall Thickness	.025	
Tensile Strength (Yarn) ASTM D-2256 Lbs	20	
Specific Gravity ASTM D-792	1.4	
Moisture Absorption< % ASTM D-570	<.005	
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 ASTM D-2863	_>30	

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Melt Point ASTM D-2117 625°F (330°C)

