



Flexo Aramid

Stronger than Steel, Soft & Pliable

FLEXO ARAMID (FA) is a soft, flexible sleeving that's perfect for bundling and protecting vulnerable components from the most extreme environmental conditions. Flexo Aramid is braided from aramid fibers and has all well-known characteristics of durability, pliability and extraordinary tensile strength. Flexo Aramid fibers are up to 20 times stronger than steel fibers of equal diameter.

FA has excellent thermal stability, permitting long-term, continuous use at temperatures as low as -274°F and as high as 320°F. Short term exposure up to 572°F can be tolerated. FA does not melt or support combustion. FA sleeving provides extreme strength and durability, yet is lightweight and easy to install.

- **Up to 20 Times Stronger Than Steel**
- **Will Not Melt, Burn or Support Combustion**
- **Stays Soft, Flexible & Pliable Throughout -274°F to 320°F Operating Temp. Range**

Nominal Size	Part #	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
		Min.	Max.	Bulk Spool	Shop Spool		
1/4"	KVN0.25YL	1/8"	5/16"	500'	50'	Yellow (YL)	0.30
1/2"	KVN0.50YL	1/4"	5/8"	250'	50'	Yellow (YL)	0.74
3/4"	KVN0.75YL	1/2"	7/8"	250'	50'	Yellow (YL)	1.44
1"	KVN1.00YL	3/4"	1 1/4"	200'	25'	Yellow (YL)	1.92
1 1/4"	KVN1.25YL	1"	1 5/8"	125'	25'	Yellow (YL)	2.40
1 1/2"	KVN1.50YL	1 1/4"	2"	100'	25'	Yellow (YL)	2.90
2"	KVN2.00YL	1 3/4"	2 1/2"	100'	25'	Yellow (YL)	3.60



Premium Flexo Aramid Shears
KVS0.00SV
(See pg. 78)



Vectran

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, industrial protection, marine and medical uses.



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

Nominal Size	Part #	Wall Thickness	Expansion Range		Standard Spool Put-Ups		Available Colors	Lbs/100'
			Min.	Max.	Bulk Spool	Shop Spool		
1/8"	VEN0.13NT	.025"	7/64"	9/64"	500	100	Natural (NT)	0.36
1/4"	VEN0.25NT	.025"	13/64"	19/64"	500	100	Natural (NT)	0.72

Vectran® is a registered trademark of the Kuraray Co., LTD.

VECTRAN

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

Nominal Size	Part #	Expansion Range		Wall Thickness	Put-Ups		Available Colors	Lbs/100'
		Min	Max		Bulk Spool	Shop Spool		
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

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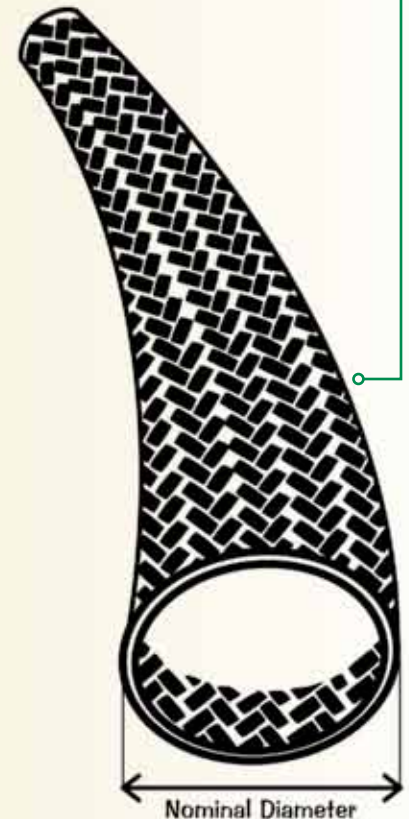
Our product also demonstrates minimal moisture absorption, outstanding cut and abrasion resistance, high dielectric strength, and melt temperature of 625°F.

Vectran sleeving is used in a wide range of applications, including aerospace, high tech research, and industrial protection.

■ **Colors Available:**
 Natural (NT)



Cut Cleanly
Kevlar 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"



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 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 _____

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

www.techflex.com