



KEVLAR

- **Up To 20 Times Stronger Than Steel**
- **Will Not Melt, Burn Or Support Combustion**
- **Stays Soft, Flexible And Pliable Throughout -274°F to 320°F**

Put-Ups

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



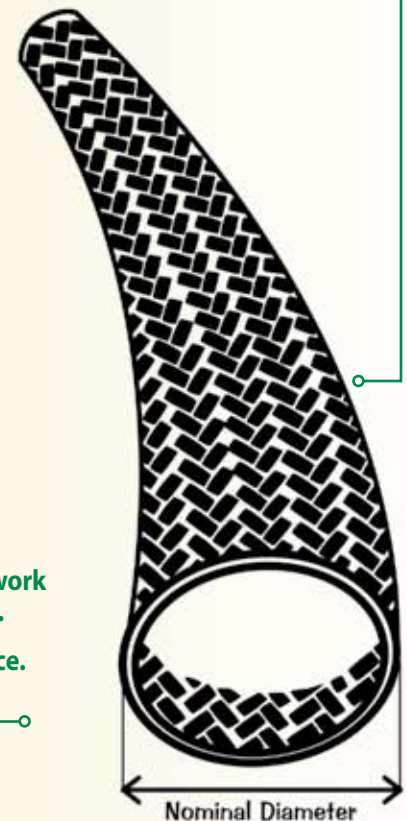
Cut Cleanly
Kevlar Shears

Stronger Than Steel, Soft And Pliable

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

KV 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. KV does not melt or support combustion. KV sleeving provides extreme strength and durability, yet is lightweight and easy to install.

- **Colors Available:**
 Yellow (YL)



■ **The properties that make Kevlar so tough in use also make the material a challenge to cut to length. These special scissors make short work of trimming KV sleeving to the proper length.**

NEW- Ask about our high speed cutting service. Cuts Kevlar to precise, repeatable lengths!

Material
 Kevlar Aramid Fibers

Grade
 KVN

Wall Thickness
 .020"

Drawing Number
 TF001KV-WD





KEVLAR



**Abrasion Resistance
 Medium**

**Abrasion Test Machine
 Taber 5150**

**Abrasion Test Wheel
 Calibrase H-18**

**Abrasion Test Load
 500g**

**Room Temperature
 80°F**

**Humidity
 70%**

**Scuffing And Pulling
 Of Soft Fibers
 20 Test Cycles**

**Scuffing And Pulling
 Of Fibers Continues
 400 Test Cycles**

**Material Destroyed
 700 Test Cycles**

**Pre-Test Weight
 5,730.5 mg**

**Post-Test Weight
 5,200.1 mg**

**Test End Loss Of Mass
 Point Of Destruction
 530.4 mg**



**Chemical
 Resistance**

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

Aromatic Solvents	_____	2
Aliphatic Solvents	_____	2
Chlorinated Solvents	_____	2
Weak Bases	_____	1
Salts	_____	1
Strong Bases	_____	2
Salt Water 0-S-1926	_____	1
Hydraulic Fluid MIL-H-5606	_____	1
Lube Oil MIL-L-7808	_____	1
De-Icing Fluid MIL-A-8243	_____	1
Strong Acids	_____	2
Strong Oxidants	_____	2
Esters/Keytones	_____	1
UV Light	_____	4
Petroleum	_____	1
Fungus ASTM G-21	_____	2
Halogen Free	_____	Yes
RoHS	_____	
SVHC	_____	

**Maximum Continuous
 Mil-I-23053
 320°F (160°C)**

**Minimum Continuous
 -274°F (-170°C)**



**PHYSICAL
 PROPERTIES**

Monofilament Diameter	_____	NA
<i>ASTM D-204</i>		
Flammability Rating	_____	
<i>FMVSS-302 Approved</i>		
Recommended Cutting	_____	Kevlar Shears
Colors	_____	1
Wall Thickness	_____	.02
Tensile Strength (Yarn)	_____	39
<i>ASTM D-2256 Lbs</i>		
Specific Gravity <i>ASTM D-792</i>	_____	1.44
Moisture Absorption	_____	
<i>% ASTM D-570</i>		
Hard Vacuum Data <i>ASTM E-595 at 10-5 torr</i>	_____	
TML	_____	3.13
CVCM	_____	.19
WVR	_____	1.76
Smoke D-Max	_____	
<i>ASTM E-662</i>		
Outgassing	_____	High
Oxygen Index	_____	29
<i>ASTM D-2863</i>		

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