

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

Material
Kevlar Aramid Fibers

Grade
KVN

Wall Thickness
.020"

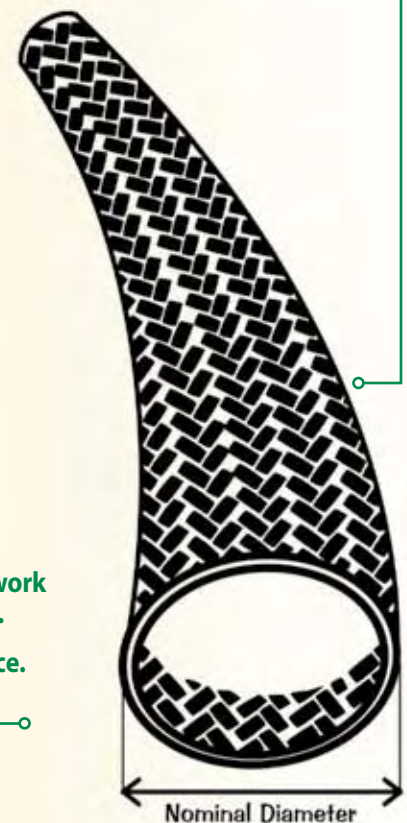
Drawing Number
TF001KV-WD

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!



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
ASTM D-204

Flammability Rating _____
FMVSS-302 Approved

Recommended Cutting _____ Kevlar Shears

Colors _____ 1

Wall Thickness _____ .02

Tensile Strength (Yarn) _____ 39
ASTM D-2256 Lbs

Specific Gravity *ASTM D-792* _____ 1.44

Moisture Absorption _____
% *ASTM D-570*

Hard Vacuum Data *ASTM E-595 at 10-5 torr*

TML _____ 3.13

CVCM _____ .19

WVR _____ 1.76

Smoke D-Max _____
ASTM E-662

Outgassing _____ High

Oxygen Index _____ 29
ASTM D-2863