



- 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 (YL) | 0.30 |
| 1/2" | KVN0.50YL | 1/4" | 5/8" | 250' | 50' | Yellow (YL) | 0.80 |
| 3/4" | KVN0.75YL | 1/2" | 7/8" | 250' | 50' | Yellow (YL) | 1.20 |
| 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 |



Cut Cleanly
Flexo Aramid Shears

Material

*Kevlar® Aramid Fibers

Grade

KVN

Wall Thickness

.020"

Drawing Number

TF001KV-WD

Stronger Than Steel, Soft And 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.

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

Colors Available:
Yellow (YL)



The properties that make Flexo Aramid so tough in use also make the material a challenge to cut to length. Use Flexo Aramid shears for cutting.

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

*Kevlar® is a registered trademark of DuPont™.



ABRASION

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

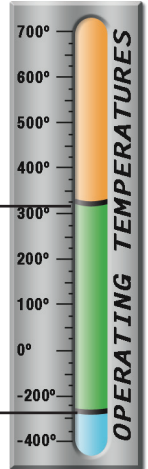
CHEMICAL RESISTANCE

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/Ketones _____ | 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 | |
| Cutting _____ | Flexo Aramid 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 | |

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