ADVANCED ENGINEERING Technical Data Sheet





- 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

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Nominal Size	Part #	Expansion Range		Bulk	Shop	Available	Lbs/
		Min	Max	Spool	Spool	Colors	100′
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

Dut-line



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.

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!



ADVANCED ENGINEERING **Technical Data Sheet**





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

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

Minimum Continuous -274°F (-170°C)

PHYSICAL

Monofilament DiameterNA ASTM D-204	١
Flammability Rating FMVSS-302 Approved	
Recommended CuttingKevlar Shears	•
Colors1	
Wall Thickness02	2
Tensile Strength (Yarn)39 ASTM D-2256 Lbs)
Specific Gravity ASTM D-7921.44	4
Moisture Absorption % ASTM D-570	-
Hard Vacuum Data ASTM E-595 at 10-5 tor	r
TML3.13	3
CVCM19	9
WVR1.76	6
Smoke D-Max	_
OutgassingHig	h
Oxygen Index29 ASTM D-2863)

TEMPERATURES

ERATING

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400

300°

200°

100'

2001

400%