



## FLEKO® KV

**UP TO 20 TIMES STRONGER THAN STEEL**  
**WILL NOT MELT, BURN, OR SUPPORT COMBUSTION · SOFT, FLEXIBLE, & PLIABLE**

FLEKO® ARAMID KV is a soft, flexible sleeving that's perfect for bundling and protecting vulnerable components from the most extreme environmental conditions. Flexo® KV is braided from aramid fibers and has all well-known characteristics of durability, pliability and extraordinary tensile strength. Flexo® KV fibers are up to 20 times stronger than steel fibers of equal diameter. Flexo® KV has excellent thermal stability, permitting long-term, continuous use at temperatures as low as -170°C and as high as 160°C. Short term exposure up to 300°C can be tolerated. Flexo® KV does not melt or support combustion. The sleeving provides extreme strength and durability, yet is lightweight and easy to install. 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.

### SIZING CHART

Nominal Size	Part #	Min Expansion	Max Expansion	*Put-Ups		Available Colors	Kgs/100m
				M	L		
6,4mm	KVN0.25YL	3,2mm	7,9mm	15,2m	152,4m	1	0,45
12,7mm	KVN0.50YL	6,4mm	15,9mm	15,2m	76,2m	1	1,19
19,1mm	KVN0.75YL	12,7mm	22,2mm	15,2m	76,2m	1	1,79
25,4mm	KVN1.00YL	19,1mm	31,8mm	7,6m	61,0m	1	2,86
31,8mm	KVN1.25YL	25,4mm	41,3mm	7,6m	38,1m	1	3,57
38,1mm	KVN1.50YL	31,8mm	50,8mm	7,6m	30,5m	1	4,32
50,8mm	KVN2.00YL	44,5mm	63,5mm	7,6m	30,5m	1	5,36

\*Put-Ups: "M" = Shop Spool and "L" = Bulk Spool



### FEATURES

Material	*Kevlar® Aramid Fibers
Grade	KVN
Wall Thickness	0,51mm
Drawing Number	TF001KVN-WD
Cutting	Flexo® Aramid Shears

### COLORS



Yellow (YL)

### CERTIFICATIONS



\*Kevlar® is a registered trademark of DuPont™.



## ABRASION

Abrasion Resistance	<b>MEDIUM</b>
Abrasion Test Machine	Taber 5150
Abrasion Test Wheel	Calibrase H-18
Abrasion Test Load	500g
Room Temperature	80°F / 27°C
Humidity	70%
Scuffing & Pulling Of Soft Fibers	20 Test Cycles
Scuffing & Pulling Of Fibers Continues	400 Test Cycles
Material Destroyed	700 Test Cycles
Pre-Test Weight	5 730,5mg
Post-Test Weight	5 200,1mg
Test End Loss Of Mass Point Of Destruction	530,4mg

## PHYSICAL PROPERTIES

Monofilament Diameter (ASTM D-204)	NA
Flammability Rating	
Recommended Cutting	Flexo® Aramid Shears
Colors	1
Wall Thickness	0,51mm
Tensile Strength (Yarn) (ASTM D-2256 Lbs)	39
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	0,19
WVR	0,76
Smoke D-Max (ASTM E-662)	
Outgassing	High
Oxygen Index (ASTM D-2863)	29

## FLAMMABILITY

Rating	
--------	--

## OPERATING TEMPERATURES

Decomposition	>572°F / >300°C
Maximum Continuous	320°F / 160°C
Minimum Continuous	-274°F / -170°C

## CHEMICAL RESISTANCE

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

Aromatic Solvents	2
Aliphatic Solvents	2
Chlorinated Solvents	2
Weak Bases	1
Salts	1
Strong Bases	2
Salt Water (O-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	Yes
SVHC	