FLEXO® KV

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

FLEXO® 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 -274°F and as high as 320°F. Short term exposure up to 572°F 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	Lbs/ 100'
				M	L		
¼"	KVN0.25YL	⅛"	¼"	50'	500'	1	0.30
½"	KVN0.50YL	½"	½"	50'	250'	1	0.80
¾"	KVN0.75YL	½"	⅞"	50'	250'	1	1.20
1"	KVN1.00YL	¾"	1¼"	25'	200'	1	1.92
1¼"	KVN1.25YL	1"	1⅝"	25'	125'	1	2.40
1½"	KVN1.50YL	1¼"	1¾"	25'	100'	1	2.90
2"	KVN2.00YL	1¾"	2½"	25'	100'	1	3.60



FEATURES

Material	***Kevlar® Aramid Fibers**
Grade	**KVN**
Wall Thickness	**.020"**
Drawing Number	**TF001KVN-WD**
Cutting	**Flexo® Aramid Shears**

COLORS



Yellow (YL)

CERTIFICATIONS

RoHS Compliant

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

TECHFLEX® Braided Sleeving Products

ADVANCED ENGINEERING
Technical Data Sheet

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 & Pulling Of Soft Fibers	20 Test Cycles
Scuffing & Pulling Of Fibers Continues	400 Test Cycles
Material Destroyed	700 Test Cycles
Pre-Test Weight	5,730.5 mg
Post-Test Weight	5,200.1 mg
Test End Loss Of Mass Point Of Destruction	530.4 mg

PHYSICAL PROPERTIES

Monofilament Diameter (ASTM D-204)	NA
Flammability Rating	
Recommended Cutting	Flexo® Aramid Shears
Colors	1
Wall Thickness	.02”
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	.19
WVR	.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 (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	Yes
SVHC	

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