



ARAMID ARMOR®

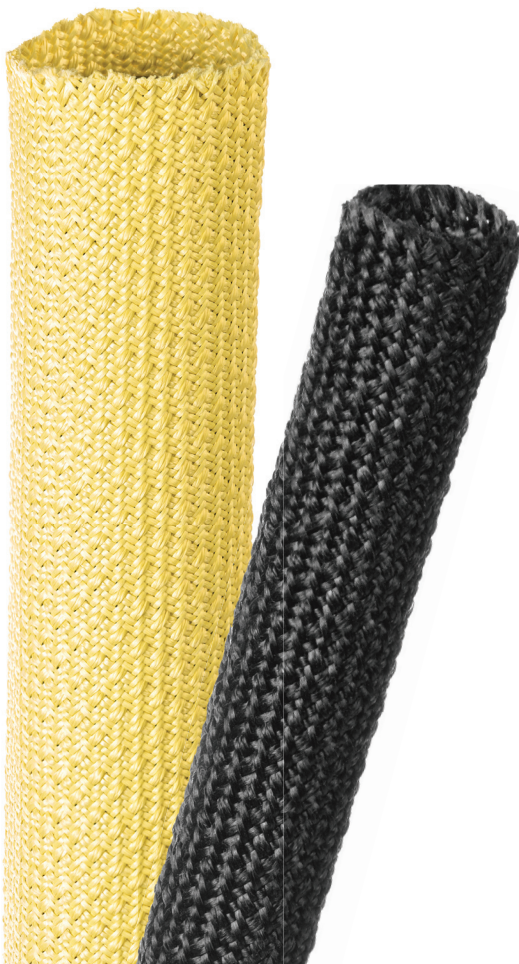
SOFT, LIGHTWEIGHT, & EXTRAORDINARILY STRONG SUPERIOR CUT PROTECTION · WILL NOT MELT, BURN, OR SUPPORT COMBUSTION

Extra heavy duty, tightly woven Aramid Armor® is braided from aramid fibers, soft and pliable but with 5 times strength of steel on equal-weight basis. Aramid Armor® is perfect for bundling and protecting vulnerable components from the most extreme environmental conditions. The aramid fibers provide durability, pliability and extraordinary tensile strength. It will not melt, burn or support combustion. The inherent strength and heat resistance of Aramid Armor® provides performance that can not be worn or aged away. Typical uses include aerospace, marine, and automotive industry applications.

SIZING CHART

| Nominal Size | Part # | Min Expansion | Max Expansion | *Put-Ups | | Available Colors | Kgs/100m |
|--------------|-----------|---------------|---------------|----------|--------|------------------|----------|
| | | | | M | L | | |
| 3,3mm | KVX0.13BK | 3,3mm | 6,4mm | 30,5m | 152,4m | 1 | 1,52 |
| 6,4mm | KVX0.25 | 6,4mm | 9,5mm | 15,2m | 152,4m | 2 | 2,51 |
| 12,7mm | KVX0.50 | 12,7mm | 25,4mm | 15,2m | 76,2m | 2 | 4,79 |
| 25,4mm | KVX1.00 | 25,4mm | 31,8mm | 7,6m | 61,0m | 2 | 7,08 |
| 31,8mm | KVX1.25 | 31,8mm | 50,8mm | 7,6m | 38,1m | 2 | 8,75 |

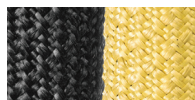
*Put-Ups: "M" = Shop Spool and "L" = Bulk Spool



FEATURES

| | |
|----------------|------------------------|
| Material | *Kevlar® Aramid Fibers |
| Grade | KVX |
| Wall Thickness | 1,32mm |
| Drawing Number | TF001KVX-WD |
| Cutting | Flexo® Aramid Shears |

COLORS



Black (BK), Yellow (YL)

CERTIFICATIONS



*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 / 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 | 2 |
| Wall Thickness | 1,32mm |
| 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 | 2 |
| UV Light | 4 |
| Petroleum | 1 |
| Fungus (ASTM G-21) | 2 |
| Halogen Free | Yes |
| RoHS | Yes |
| SVHC | |