



## SHRINKFLEX® 2:1 KYNAR FLAME RETARDANT · MEETS SPECIFICATION MIL-I-DTL-23053/8 EXCELLENT ABRASION RESISTANCE

2:1 Kynar® tubing is a Polyvinylidene Fluoride heatshrink tubing that shrinks to ½ its original diameter. During the shrinking operation, the tubing will encapsulate any device inside of it at the time and will assume the contour of that device. Kynar® is a high flame-retardant tubing that is tough and abrasion resistant in mechanical environments. It has excellent properties for cut through and solvent resistance. Shrinkflex® Kynar® is recommended for applications for strain relieving components such as soldered connections and splices, which are in high continuous operating temperature environments.

### SIZING CHART

| Nominal Size | Part #  | Unshrunk Diameter /mm | Shrunk Diameter /mm | *Put-Ups |      | Available Colors | Lbs/100' |
|--------------|---------|-----------------------|---------------------|----------|------|------------------|----------|
|              |         |                       |                     | M        | L    |                  |          |
| 3/64"        | H2K0.05 | 1.2                   | 0.6                 | 25'      | 200' | 2                | 0.03     |
| 1/16"        | H2K0.06 | 1.6                   | 0.8                 | 25'      | 200' | 2                | 0.05     |
| 3/32"        | H2K0.09 | 2.4                   | 1.2                 | 25'      | 200' | 2                | 0.06     |
| 1/8"         | H2K0.13 | 3.2                   | 1.6                 | 25'      | 200' | 2                | 0.07     |
| 3/16"        | H2K0.19 | 4.8                   | 2.4                 | 25'      | 200' | 2                | 0.10     |
| 1/4"         | H2K0.25 | 6.4                   | 3.2                 | 25'      | 200' | 2                | 0.15     |
| 3/8"         | H2K0.38 | 9.5                   | 4.7                 | 25'      | 200' | 2                | 0.25     |
| 1/2"         | H2K0.50 | 12.7                  | 6.4                 | 25'      | 100' | 2                | 0.30     |
| 3/4"         | H2K0.75 | 19.1                  | 9.5                 | 25'      | 50'  | 2                | 0.50     |
| 1"           | H2K1.00 | 25.6                  | 12.7                | 25'      | 50'  | 2                | 0.80     |

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



### FEATURES

|                       |                         |
|-----------------------|-------------------------|
| Material              | Polyvinylidene Fluoride |
| Grade                 | H2K                     |
| Monofilament Diameter | NA                      |
| Drawing Number        | TF001H2K-WD             |
| Cutting               | Scissors                |

### COLORS



Black (BK), Clear (CL)

### CERTIFICATIONS



Kynar® is a registered trademark of the Arkema Corporation





## CHEMICAL RESISTANCE

|                                       |       |
|---------------------------------------|-------|
| Fluid Resistance (73°F/23°C, 24 hrs.) | 5,000 |
|---------------------------------------|-------|

## PHYSICAL PROPERTIES

|   |                        |
|---|------------------------|
| Monofilament Diameter (ASTM D-204)                  | NA                     |
| Flammability Rating                                 | UL 224, VW-1           |
| Recommended Cutting                                 | Scissors               |
| Colors  | 2                      |
| Moisture Absorption (%) (ASTM D-570)                | .5                     |
| Tensile Strength (psi) (ASTM D-638)                 | 5,000                  |
| Elongation (%) (ASTM D-638)                         | 150                    |
| Specific Gravity (ASTM D-792)                       | 1.8                    |
| Deformation (%) (302°F/150°C, 1 Hr., UL 224)        | 50                     |
| Low Temp. Flex (-67°F/-55°C)<br>(MIL-DTL-23053)     | No Cracking            |
| Heat Shock (572°F/300°C, 4 Hrs.)<br>(MIL-DTL-23053) | No Cracking            |
| Secant Modulus (psi) (ASTM D-882)                   | 100,000                |
| Longitudinal Change (%) (MIL-DTL-23053)             | ±10                    |
| Dielectric Strength (kV/mm) (ASTM D-876)            | 23.6                   |
| Volume Resistivity (ohm/cm) (ASTM D-876)            | 1.0 x 10 <sup>13</sup> |

## FLAMMABILITY

|        |              |
|--------|--------------|
| Rating | UL 224, VW-1 |
|--------|--------------|

## OPERATING TEMPERATURES

|                                  |               |
|----------------------------------|---------------|
| Shrinks                          | 347°F / 175°C |
| Maximum Continuous (Mil-I-23053) | 392°F / 200°C |
| Minimum Continuous (Mil-I-23053) | -67°F / -55°C |



## HOW-TO

Measure the Shrinkflex® tubing to length and cut with a scissor. The thickness of your bundle, as well as the desired final appearance, will determine the length of the tubing you cut. Generally, a piece 1½" - 2" long will accommodate almost any need. Single wires, or smaller bundles, require shorter pieces.

Slip the Shrinkflex® tubing over the bundle and position it so that both the sleeved and unsleeved portions are sufficiently covered. Notice the small pieces of tubing installed on single wires as part of a color coding system. If your project requires multiple operations, always work up from the smallest to the largest bundle.

Gently apply heat to Shrinkflex® tubing from a heat gun, hair dryer or torch with an appropriate attachment. Keep the heat source far enough away so that hot metal or direct flame does not come in contact with the tubing, wires or sleeving. Move the heat around the bundle to prevent damaging the sleeving and to ensure that all areas of the tubing have been shrunk. Once cooled, your installation is complete.