

FLEXIBLE POLYVINYLIDENE FLUORIDE 2 : 1 Shrink Ratio

MILITARY SPECIFICATION & UL



RoHS Compliant



Lead-Free

| TYPICAL FEATURES | |
|---|---|
| <p>1) SUMITUBE K2 is a clear, flexible, inherently flame retarded heat-shrinkable PVDF tubing.</p> <p>2) Because it is flexible, SUMITUBE K2 is packaged in continuous lengths on spools. This provides long lengths, not available with standard PVDF tubing.</p> <p>3) SUMITUBE K2 is tough and abrasion resistant in mechanical environments and has excellent resistance to cut-through and solvents.</p> | <p>4) SUMITUBE K2 meets or exceeds the requirements of AMS-DTL-23053/18B, Class 1 and UL-224, VW-1. The continuous operating temperature is -55° C to +175° C.</p> <p>5) The shrink temperature of SUMITUBE K2 is 150° C compared with 175° C for standard Kynar.</p> <p>6) SUMITUBE K2 is recommended for applications where the properties of standard PVDF are desirable, but with the added benefits of flexibility, greater clarity, reduced shrink temperature and long continuous lengths.</p> |

| STANDARD SIZES | | | | | | |
|----------------|---|------|--|------|---|------|
| SIZE | INSIDE DIAMETER AS SUPPLIED (MIN) | | INSIDE DIAMETER AFTER RECOVERY (MAX) | | WALL THICKNESS AFTER RECOVERY (NOM) | |
| | INCH | (MM) | INCH | (MM) | INCH | (MM) |
| 3/64 | .046 | 1.2 | .023 | 0.6 | .010 | 0.25 |
| 1/16 | .063 | 1.6 | .031 | 0.8 | .010 | 0.25 |
| 3/32 | .093 | 2.4 | .046 | 1.2 | .010 | 0.25 |
| 1/8 | .125 | 3.2 | .062 | 1.6 | .010 | 0.25 |
| 3/16 | .187 | 4.8 | .093 | 2.4 | .010 | 0.25 |
| 1/4 | .250 | 6.4 | .125 | 3.2 | .012 | 0.30 |
| 3/8 | .375 | 9.5 | .187 | 4.8 | .012 | 0.30 |
| 1/2 | .500 | 12.7 | .250 | 6.4 | .012 | 0.30 |
| 3/4 | .750 | 19.1 | .375 | 9.5 | .017 | 0.43 |
| 1 | 1.000 | 25.4 | .500 | 12.7 | .019 | 0.48 |
| 1 1/2 | 1.500 | 38.1 | .750 | 19.1 | .020 | 0.51 |
| 2 | 2.000 | 50.8 | 1.000 | 25.4 | .020 | 0.51 |

| | | | |
|--|--------------------------|-----------------------------|-----------------------------|
| <p>Standard Color: Clear</p> <p>Standard Package: Spooled</p> <p>How to Order: (Type of Material)</p> <p>Example: K2</p> | <p>(Size)</p> <p>1/4</p> | <p>(Color)</p> <p>Clear</p> | <p>(Packaging)</p> <p>S</p> |
|--|--------------------------|-----------------------------|-----------------------------|

K2 SPECIFICATION VALUES

| PROPERTY (UNITS) | TEST METHOD | REQUIREMENT |
|---|--|---|
| Physical: Tensile strength (psi) Elongation (%) Specific gravity Low temperature flex. (-55° C) Heat shock (275° C, 4 hrs.) Heat resistance (250° C, 168 hrs.) Elongation (%) Secant modulus (psi) Deformation (150° C, 1 hr.) (%) Longitudinal change (%) | ASTM D 638 ASTM D 638 ASTM D792 AMS-DTL-23053 AMS-DTL-23053 ASTM D638 ASTM D882 UL 224 AMS-DTL-23053 | 3500 min. 200 min. 2.0 max. no cracking no cracking 100 min. 100,000 min. 50 max. ±10 |
| Electrical: Dielectric strength (volts) Volume resistivity (ohm-cm) | ASTM D 876 ASTM D 876 | 400 min. 1.0 X 10 ¹¹ min. |
| Chemical: Copper stability (180° C, 168 hrs.) Elongation (%) Water absorption (%) Fluid resistance (23° C, 24 hrs.) Tensile strength (psi) Flammability Shrink temperature, nominal Vacuum Outgassing TML, % CVCM, % | UL 224 ASTM D570 AMS-DTL-23053 UL-224 VW-1 ASTM-E-595 ASTM-E-595 | 70% of unaged value min. 0.5 max. 2000 min. Pass 150° C 1.0 max. 0.1 max. |

Specification reference: UL-224, 150° C, VW-1
 File E-70631 YDQS2, Cat. No. SUMITUBE K2 or 875
 AMS-DTL-23053/18B, Class 1



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