

## 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

**Standard Color:** Clear

**Standard Package:** Spooled

**How to Order:** (Type of Material) (Size) (Color) (Packaging)

**Example:** K2 1/4 Clear S

## K2 SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
<b>Physical:</b> 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
<b>Electrical:</b> Dielectric strength (volts) Volume resistivity (ohm-cm)	ASTM D 876 ASTM D 876	400 min. 1.0 X 10 <sup>11</sup> min.
<b>Chemical:</b> 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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