

**MEDICAL GRADE FLEXIBLE POLYVINYLIDENE FLUORIDE  
(PVDF)  
2 : 1 Shrink Ratio**

- ✔ RoHS / RoHS2 Compliant    
 ✔ Heavy Metals Free

<b>TYPICAL FEATURES</b>	
<p>1) SUMITUBE K2M is a USP Class VI certified, light weight, flexible, heat shrinkable polyolefin tubing with excellent electrical and mechanical properties.</p> <p>2) SUMITUBE K2M is compatible with gamma and gas sterilization protocols, as well as common chemical disinfectants.</p> <p>3) SUMITUBE K2M is available in opaque black that is not affected by the color of the substrate.</p> <p>4) Shrink temperature is 150°C.</p>	<p>5) Operating temperature range is -55°C to +175°C.</p> <p>6) SUMITUBE K2M is recommended for use covering, protecting, and insulating medical devices and their components in non-invasive or minimally invasive applications such as electrosurgical devices, probes, instruments, etc. It is not suitable for implantable uses.</p> <p><i>NOTE:</i> SEIP requires that all applications for medical grade tubing uses shall be reviewed and approved by SEIP prior to quotation.</p>

<b>STANDARD SIZES</b>						
<b>NOMINAL SIZE</b>	<b>INSIDE DIAMETER AS SUPPLIED (MIN)</b>		<b>INSIDE DIAMETER AFTER RECOVERY (MAX)</b>		<b>WALL THICKNESS AFTER RECOVERY (NOM)</b>	
	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

**Standard Colors:** Black  
**Standard Package:** Spooled (S) on plastic spool and supplied in sealed plastic bag.  
**How to Order:** (Type of material) (Size) (Color) (Packaging)  
**Example:**        K2M            1/4    Black        S

## K2M SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
<b>Physical:</b> Tensile strength (psi) Elongation (%) Specific gravity Low temperature flex. (-55° C) Heat resistance (250°C, 168 Hrs.) Elongation (%) Secant modulus (psi) Longitudinal change (%)	ASTM D 638 ASTM D 638 ASTM D 792 AMS-DTL-23053  ASTM D 638 ASTM D 882 AMS-DTL-23053	3500 min. 200 min. 2.0 max. no cracking  100 min. 100,000 min. ±10
<b>Electrical:</b> Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D 876 ASTM D 876	400 min. 1.0 X 10 <sup>11</sup> min.
<b>Chemical:</b> Heavy Metals Content (Cd,Hg,Pb, As,Sb) Water absorption, % (23°C, 24 hrs.) Fluid resistance (23°C, 24 Hrs.) Isopropyl alcohol 5% saline solution Ethylene glycol Followed by: Tensile strength (psi) Dielectric strength (volts/mil) Shrink temperature, nominal	ICP-MS ASTM D 570      ASTM D 2671 ASTM D 2671 ----	<1 ppm total (all metals) 0.5 max.      1,500 min. 500 min. 150°C


**SUMITOMO ELECTRIC**  
**INTERCONNECT PRODUCTS INC.**  
[www.seipusa.com](http://www.seipusa.com)

915 Armorlite Drive  
 San Marcos, CA 92069

Telephone: (800) 758-3515  
 FAX: (800) 758-3517

Rev. 5-26-16