MEDICAL GRADE FLEXIBLE POLYOLEFIN 2: 1 Shrink Ratio

RoHS / RoHS2 Compliant

✓ Heavy Metals Free

✓ Halogen Free

TYPICAL FEATURES

- SUMITUBE A4M is a USP Class VI certified, light weight, flexible, heat shrinkable polyolefin tubing with excellent electrical properties and chemical resistance.
- 2) SUMITUBE A4M is resistant to gamma and gas sterilization protocols, as well as common chemical disinfectants.
- SUMITUBE A4M is available in opaque glossy colors that are not affected by the color of the substrate.
- 4) Shrink temperature is 115°C.

- 5) Operating temperature range is -55°C to +105°C.
- 6) SUMITUBE A4M 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.

NOTE: SEIP requires that all applications for medical grade tubing uses shall be reviewed and approved by SEIP prior to quotation.

STANDARD SIZES							
NOMINAL	INSIDE DIAMETER AS SUPPLIED (MIN)		INSIDE DIAMETER AFTER RECOVERY (MAX)		WALL THICKNESS AFTER RECOVERY (NOM)		
SIZE	INCH	(MM)	INCH	(MM)	INCH	(MM)	
3/64	.046	1.2	.023	0.6	.016	0.40	
1/16	.063	1.6	.031	0.8	.017	0.43	
3/32	.093	2.4	.046	1.2	.020	0.51	
1/8	.125	3.2	.062	1.6	.020	0.51	
3/16	.187	4.8	.093	2.4	.020	0.51	
1/4	.250	6.4	.125	3.2	.025	0.64	
3/8	.375	9.5	.187	4.8	.025	0.64	
1/2	.500	12.7	.250	6.4	.025	0.64	
3/4	.750	19.1	.375	9.5	.030	.076	

Standard Colors: Black, White, Blue, Violet, and Clear. Other colors and sizes per factory quote and acceptance.

Standard Package: Spooled (S) on plastic spool and supplied in sealed plastic bag.

How to Order: (Type of material) (Size) (Color) (Packaging)

Example: A4M 1/4 Black S

A4M SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT	
Physical: Tensile strength (psi) Elongation (%) Specific gravity Low temperature flex. (-55° C) Heat resistance (136°C, 168 Hrs.) Elongation (%) Secant modulus (psi) Longitudinal change (%)	ASTM D638 ASTM D638 ASTM D792 AMS-DTL-23053 ASTM D638 ASTM D882 AMS-DTL-23053	1500 min. 200 min. 1.0 max. no cracking 100 min. 25000 max. +5, -15	
Electrical: Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D876 ASTM D876	500 min. 1.0 X 10¹⁵ min.	
Chemical: 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	ICP-MS ASTM D570	<1 ppm total (all metals) 0.5 max.	
Followed by: Tensile strength (psi) Dielectric strength (volts/mil) Shrink temperature, nominal	ASTM D 2671 ASTM D 2671 	1,500 min. 500 min. 115°C	

SUMITOMO ELECTRIC

INTERCONNECT PRODUCTS INC. www.seipusa.com

915 Armorlite Drive San Marcos, CA 92069 Telephone: (800) 758-3515 FAX: (800) 758-3517

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