

MEDICAL GRADE FLEXIBLE POLYOLEFIN 2 : 1 Shrink Ratio

- RoHS / RoHS2 Compliant
 Heavy Metals Free
 Halogen Free

TYPICAL FEATURES

- 1) 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.
 - 3) 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 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 | .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 10 ¹⁵ 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 Followed by: Tensile strength (psi) Dielectric strength (volts/mil) Shrink temperature, nominal | ICP-MS ASTM D570 ASTM D 2671 ASTM D 2671 ---- | <1 ppm total (all metals) 0.5 max. 1,500 min. 500 min. 115°C |


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