

SUMITUBE® A2

FLEXIBLE CLEAR POLYOLEFIN

MILITARY SPECIFICATION

TYPICAL FEATURES

- 1) SUMITUBE A2 is a flexible, clear polyolefin heat-shrinkable tubing which meets all the requirements of Military Specification MIL-DTL-23053/5C, Class 2.
- 2) Shrink temperature is 115° C with an indefinite storage life.
- 3) Operating temperature range is -55°C to +135°C and up to 200°C for short time durations.
- 4) A2 is recommended for general purpose applications such as electrical insulation or light weight harness jacketing, where visual inspection of the substrate is desirable.

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	.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	0.76
1	1.000	25.4	.500	12.7	.035	0.89
1 1/2	1.500	38.1	.750	19.1	.040	1.02
2	2.000	50.8	1.000	25.4	.045	1.14
3	3.000	76.2	1.500	38.1	.050	1.27
4	4.000	101.6	2.000	50.8	.055	1.40

Standard Colors: Clear only

Standard Package: Spooled (S) or 4 feet (4')

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

Example: A2 1/4 Clear S



SUMITOMO ELECTRIC

A2 SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
Physical: Tensile strength (psi) Elongation (%) Specific gravity Low temperature flex (-55° C) Heat shock (250° C, 4 hrs.) Heat resistance (175° C, 168 hrs.) Elongation (%) Secant modulus (psi) Longitudinal change (%)	ASTM D638 ASTM D638 ASTM D792 MIL-DTL-23053 MIL-DTL-23053 ASTM D638 ASTM D882 MIL-DTL-23053	1500 min. 200 min, 1.00 max. no cracking no cracking 100 min. 25 x 10 ⁴ max. ±5
Electrical: Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D876 ASTM D876	500 min. 1.0 X 10 ¹⁴ min.
Chemical: Corrosion (175° C, 16 hrs.) Water absorption (%) Fluid resistance (23° C, 24 hrs.) Tensile strength (psi) Flammability Shrink temperature, nominal	MIL-DTL-23053 ASTM D570 MIL-DTL- 23053	no corrosion 0.2 max. 1000 min. N/A 115° C

Specification reference: MIL-DTL-23053/5C, Class 2