

# SUMITUBE<sup>®</sup> A4

## COMMERCIAL GRADE FLEXIBLE POLYOLEFIN 2 : 1 Shrink Ratio

RoHS Compliant       Lead-Free       Halogen-Free

### TYPICAL FEATURES

- 1) SUMITUBE A4 is a light weight flexible, heat shrinkable polyolefin tubing which has excellent weather (UV) resistance with good electrical properties and chemical resistance.
- 2) SUMITUBE A4 is available in many opaque glossy colors that are not affected by the color of the substrate.
- 3) Shrink temperature is 110°C.
- 4) Operating temperature range is -55°C to +105°C.
- 5) SUMITUBE A4 is recommended for general purpose applications such as handle covering, radio antennas, insulating wire terminations, and light wire harness bundling.

### 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	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

**Standard Colors:** Black, White, Red, Yellow, Blue, Green and Clear  
**Standard Package:** Spooled (S)  
**How to Order:** (Type of material) (Size) (Color) (Packaging)  
**Example:**                    A4                    1/4                    Black                    S

## A4 SPECIFICATION VALUES

PROPERTY (UNITS)	TEST METHOD	REQUIREMENT
<b>Physical:</b> 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
<b>Electrical:</b> Dielectric strength (volts/mil) Volume resistivity (ohm-cm)	ASTM D876 ASTM D876	500 min. 1.0 X 10 <sup>15</sup> min.
<b>Chemical:</b> UV color stability (3000 Hrs.) UV resistance (3000 Hrs.) Elongation (%) Water absorption Fluid resistance (23°C, 24 Hrs.) Tensile strength (psi) Flammability Shrink temperature, nominal	WEATHER-O-METER WEATHER-O-METER  ASTM D570  AMS-DTL-23053	No color reduction  100 min. 0.2 max.  1000 MIN. N/A 115°C


**SUMITOMO ELECTRIC**  
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