

Basic Properties

- (1) Materials : Irradiated cross-linked flexible flame-retardant PVdF
- (2) Shrink temperature : min. 90°C
- (3) Shrink Ratio : Radial change: min. 50%
: Longitudinal change: 0 +/- 10%
- (4) Continuous Operating Temperature : -55 to 150°C

Features

- (1) SAE-AMS/UL approved
- (2) Shrinkage at low temperature (at 90°C)
- (3) Flame-retardant
- (4) Transparent colours
- (5) Thin wall
- (6) Flexible
- (7) Highly resistant against oil and chemicals

Specification/Approvals

SAE-AMS-DTL-23053/18 Class 3

UL224

File No. E70631

Catalog No. Sumitube™ K3 or 926

Flammability: VW-1

Electrical Appliance and Material Safety Law (Japan)

Flammability rating (-F-) test registration No.: F-ST3-017 - F-ST3-020

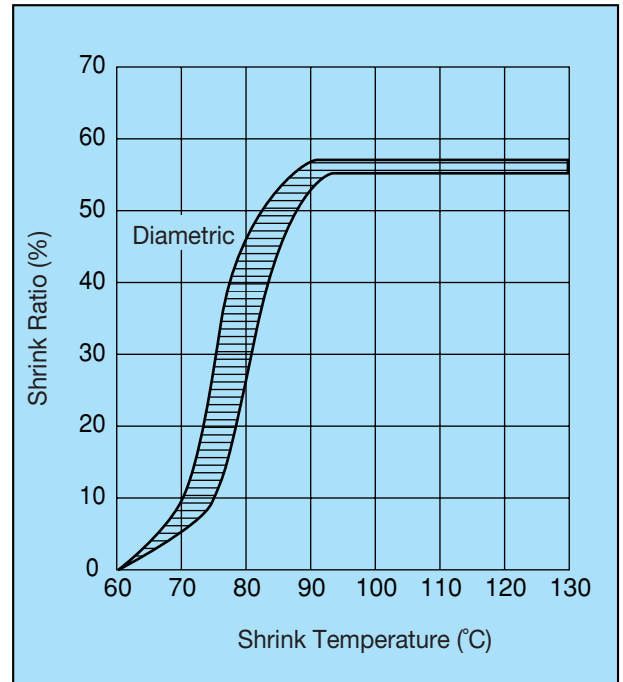
Application

- (1) Insulation, protection and reinforcement for termination and joints of electric wire
- (2) Protection for wire and devices which are used under high temperature, chemicals and oils
- (3) Fixing and protection for cable labels
- (4) Insulation and protection for thermistor, resistor and condenser

Colours

Clear

Shrink Property



■ Properties [SAE-AMS-DTL-23053/18 Class 3]

Properties	Items	Requirements	Typical values*1
Mechanical	Tensile strength (before aging)	min. 10.4MPa	11.8MPa
	Elongation (before aging)	min. 200%	400%
	Elongation (after aging)	225°C x 7 days, min. 100%	492%
	Low temperature flexibility	-55°C x 4 hours, no crack	pass
	Heat shock	275°C x 4 hours, no crack	pass
	Gravity	max. 1.90	1.82
Electrical	Dielectric strength	min. 15.7kV/mm	31.2kV/mm
	Volume resistivity	min. $1.0 \times 10^{11} \Omega \cdot \text{cm}$	$4.5 \times 10^{13} \Omega \cdot \text{cm}$
Chemical	Transparent stability	200°C x 24 hours, no change	pass
	Water absorption	23°C x 24 hours, max. 0.50%	0.04%
	Fluid resistance	After immersed at 24°C x 24 hours,	
	Tensile strength	min. 6.9MPa	10.0MPa
	Dielectric strength	min. 15.7kV/mm	28.0kV/mm
	Elongation	min. 100%	400.00%
	Flammability	Flame-retardant, pass VW-1	pass

*1: For reference use only

■ Sizes

Nominal size (inch)	Supplied ID (mm)		Recovered ID (mm)		Unit length (min.) (m)
	Inside diameter (min.)	Wall thickness (nom.)	Inside diameter (max.)	Wall thickness	
3/64	1.20	0.10	0.60	0.25 ± 0.05	305
1/16	1.60	0.10	0.80	0.25 ± 0.05	305
3/32	2.40	0.12	1.20	0.27 ± 0.04	152.5
1/8	3.20	0.12	1.60	0.27 ± 0.04	152.5
3/16	4.80	0.12	2.40	0.27 ± 0.04	61
1/4	6.4	0.14	3.20	0.33 ± 0.05	61
3/8	9.5	0.14	4.80	0.33 ± 0.05	61
1/2	12.7	0.14	6.4	0.33 ± 0.05	61
3/4	19.1	0.18	9.5	0.43 ± 0.07	61
1	25.4	0.20	12.7	0.48 ± 0.07	61