

Basic Properties

- (1) Materials : Irradiated cross-linked semi-rigid flame-retardant polyolefin
- (2) Shrink temperature : min. 130°C
- (3) Shrink Ratio : Radial change: min. 50%
: Longitudinal change: 0 +/- 5%
- (4) Continuous Operating Temperature : -55 to 125°C

Features

- (1) UL/CSA approved
- (2) Semi-rigid
- (3) Flame-retardant

Specification/Approvals

UL224

File No. E48762
Catalog No. Sumitube™ B8 or 846
Rating temperature: 125°C
Rating voltage: 600V
Flammability: VW-1

CSA C22.2 No. 198.1

File No. LR33298
Rating temperature: 125°C
Rating voltage: 600V
Flammability: VW-1

Electrical Appliance and Material Safety Law (Japan)

Flammability rating (-F-) test registration No.: F-ST3-009 - F-ST3-012

Marking on the surface

◆SUMITOMO-K CSA SR HS X PO TUBING 125°C SUMITUBE™ B8 VW-1 -F-

Application

- (1) Insulation, protection and reinforcement for termination and joints of electric wire which requires highly strength against mechanical
- (2) Reinforcement by covering
- (3) Anticorrosion for pipes

Colours

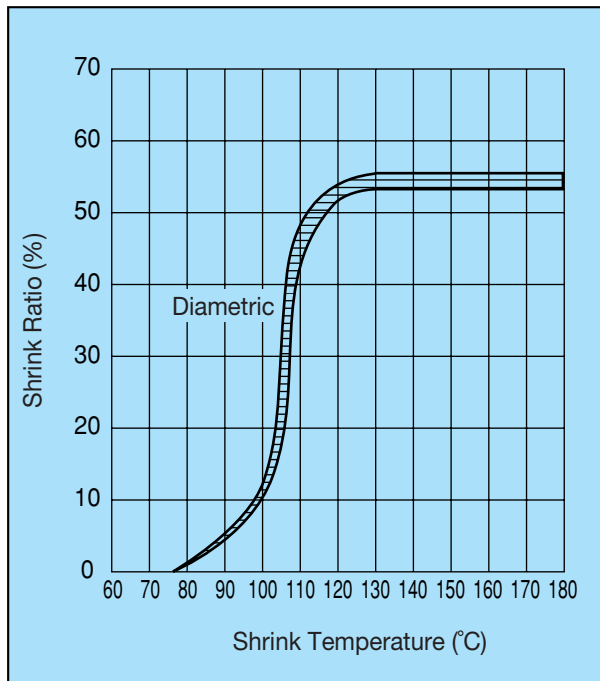
Black, Brown, Red, Orange, Yellow, Green, Blue, Purple, Grey, White

Properties [UL224]

Properties	Items	Requirements	Typical values*1
Mechanical	Tensile strength (before aging)	min. 13.8MPa	19.0MPa
	Tensile strength (after aging)	158°C x 7 days, min. 9.7MPa	17.1MPa
	Elongation (before aging)	min. 200%	340%
	Elongation (after aging)	158°C x 7 days, min. 100%	340%
	Heat shock	250°C x 4 hours, no crack	pass
	Cold bend	-30°C x 1 hour, no crack	pass
Electrical	Voltage resistance (before aging)	AC2.5kV x 60 sec. no breakdown	pass
	Voltage resistance (after aging)	158°C x 7 days, AC2.5kV x 60 sec., no breakdown	pass
	Dielectric breakdown (before aging)	min. AC2.5kV	15.0kV
	Dielectric breakdown (after aging)	158°C x 7 days, min. 50% of original and min. AC2.5kV	pass
	Volume resistivity	min. 1.0 x 10 ¹⁴ Ω·cm	2.3 x 10 ¹⁶ Ω·cm
Chemical	Corrosion against bare copper	158°C x 7 days, no corrosion after leaving under humidity 95%, 23°C x 24 hours	pass
	Stability against copper	158°C x 7 days, elongation min. 100% after leaving under humidity 95%, 23°C x 24 hours	304%
	Flammability	Flame-retardant, pass VW-1	pass

*1: For reference use only

Shrink Property



Sizes

Nominal size (inch)	Supplied ID (mm)		Recovered ID (mm)		Unit length (min.) (m)
	Inside diameter	Wall thickness (nom.)	Inside diameter (max.)	Wall thickness	
3/64	1.60 ± 0.30	0.25	0.60	0.51 ± 0.07	1.22
1/16	2.00 ± 0.30	0.25	0.80	0.51 ± 0.07	1.22
3/32	2.70 ± 0.30	0.25	1.20	0.51 ± 0.07	1.22
1/8	3.50 ± 0.30	0.25	1.60	0.51 ± 0.07	1.22
3/16	5.20 ± 0.30	0.30	2.40	0.64 ± 0.07	1.22
1/4	6.8 ± 0.4	0.30	3.20	0.64 ± 0.07	1.22
3/8	10.0 ± 0.4	0.35	4.80	0.76 ± 0.07	1.22
1/2	13.2 ± 0.5	0.35	6.4	0.76 ± 0.07	1.22
3/4	20.0 ± 0.6	0.35	9.5	0.76 ± 0.07	1.22
1	26.6 ± 0.8	0.40	12.7	0.89 ± 0.12	1.22