

## Basic Properties

- (1) Materials : Irradiated cross-linked flexible flame-retardant polyolefin
- (2) Shrink temperature : min. 90°C
- (3) Shrink Ratio : Radial change: min. 66%  
: Longitudinal change: min. -15%
- (4) Continuous Operating Temperature : -55 to 135°C

## Features

- (1) High shrink ratio
- (2) UL/CSA approved
- (3) Flame-retardant
- (4) Bright colour

## Specification/Approvals

### UL224

File No. E48762  
Catalog No. Sumitube™ B2 or 826  
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

## Application

- (1) Insulation, protection and reinforcement for large gap object
- (2) Colour identification and bundling for electric wires

## Colours

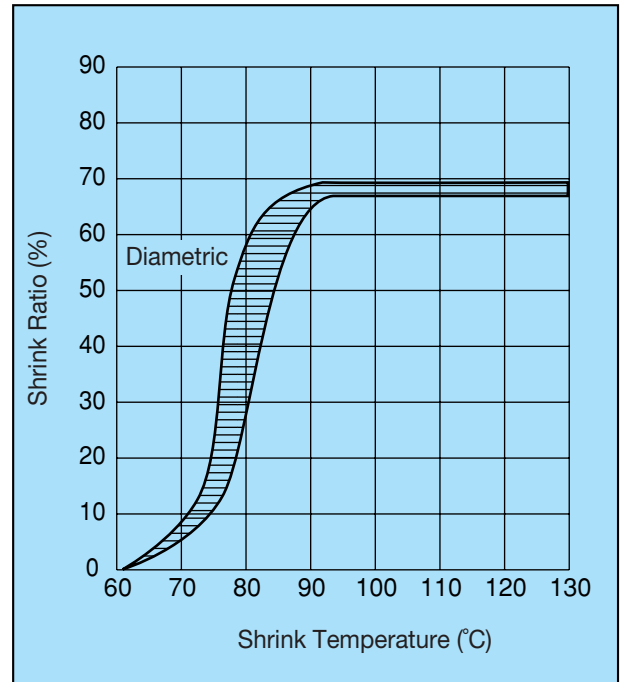
Black, Brown, Red, Orange, Yellow, Green, Blue, Purple, Grey, White

## Properties [UL224]

Properties	Items	Requirements	Typical values*1
Mechanical	Tensile strength (before aging)	min. 10.4MPa	12.1MPa
	Tensile strength (after aging)	158°C x 7 days, min. 7.3MPa	12.5MPa
	Elongation (before aging)	min. 200%	440%
	Elongation (after aging)	158°C x 7 days, min. 100%	450%
	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	24.8kV
	Dielectric breakdown (after aging)	158°C x 7 days, min. 50% of original and min. AC2.5kV	pass
	Volume resistivity	min. $1.0 \times 10^{14} \Omega \cdot \text{cm}$	$5.8 \times 10^{14} \Omega \cdot \text{cm}$
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	405%
	Flammability	Flame-retardant, pass VW-1	pass

\*1: For reference use only

## Shrink Property



## Sizes

Nominal size (mm)	Supplied ID (mm)		Recovered ID (mm)		Unit length (min.) (m)
	Inside diameter (min.)	Wall thickness (nom.)	Inside diameter (max.)	Wall thickness (nom.)	
1.5/0.5	1.50	0.20	0.50	0.50	305
3/1	3.00	0.25	1.00	0.60	152.5
6/2	6.0	0.25	2.00	0.70	61
9/3	9.0	0.30	3.00	0.80	61
12/4	12.0	0.30	4.00	0.85	61
18/6	18.0	0.35	6.0	1.00	61
24/8	24.0	0.40	8.0	1.20	61
40/13	40.0	0.40	13.0	1.25	61