

Basic Properties

- (1) Materials : Irradiated cross-linked flexible polyolefin
- (2) Shrink temperature : min. 90°C
- (3) Shrink Ratio : Radial change: min. 50%
Longitudinal change: 0 +/- 5%
- (4) Continuous Operating Temperature : -55 to 135°C

Features

- (1) SAE-AMS/UL/CSA approved
- (2) Flame-retardant
- (3) Flexible
- (4) Bright colour

Specification/Approvals

SAE-AMS-DTL-23053/5 CLASS 1

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 termination and joints of electric wire
- (2) Colour identification and bundling for electric wires
- (3) Insulation and protection for resistor and condenser

Colours

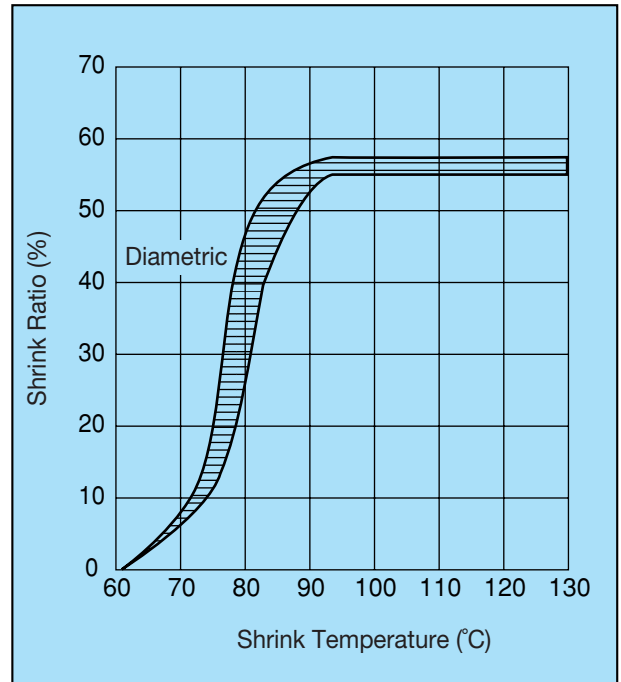
Black, Brown, Red, Orange, Yellow, Green, Blue, Purple, Grey, White
*Yellow/Green stripe colour is available only for limited size

Properties [based on SAE-AMS-DTL-23053/5 Class 1]

Properties	Items	Requirements	Typical values*1
Mechanical	Tensile strength (before aging)	min. 10.4MPa	13.4MPa
	Elongation (before aging)	min. 200%	410%
	Elongation (after aging)	175°C x 7 days, min. 100%	410%
	Low temperature flexibility	-55°C x 4 hours, no crack	pass
	Heat shock	250°C x 4 hours, no crack	pass
	Gravity	max. 1.35	1.32
Electrical	Dielectric strength	min. 19.7kV/mm	37.1kV/mm
	Volume resistivity	min. 1.0 x 10 ¹⁴ Ω·cm	3.1 x 10 ¹³ Ω·cm
Chemical	Water absorption	23°C x 24 hours, max. 0.50%	0.28%
	Corrosion against bare copper	175°C x 16 hours, no corrosion	pass
	Colour stability	175°C x 24 hours, no change	pass
	Fluid resistance	After immersed at 24°C x 24 hours,	
	Tensile strength	min. 6.9MPa	13.1MPa
	Dielectric strength	min. 15.8kV/mm	30.5kV/mm
	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	Cut	Spool
3/64	1.60 ± 0.30	0.20	0.60	0.41 ± 0.07	1.22	305
1/16	2.00 ± 0.30	0.20	0.80	0.43 ± 0.07	1.22	305
3/32	2.70 ± 0.30	0.25	1.20	0.51 ± 0.07	1.22	152.5
1/8	3.50 ± 0.30	0.25	1.60	0.51 ± 0.07	1.22	152.5
3/16	5.20 ± 0.30	0.30	2.40	0.51 ± 0.07	1.22	61
1/4	6.8 ± 0.4	0.30	3.20	0.64 ± 0.07	1.22	61
3/8	10.0 ± 0.4	0.30	4.80	0.64 ± 0.07	1.22	61
1/2	13.2 ± 0.5	0.30	6.4	0.64 ± 0.07	1.22	61
3/4	20.0 ± 0.6	0.40	9.5	0.76 ± 0.07	1.22	61
1	26.6 ± 0.8	0.45	12.7	0.89 ± 0.12	1.22	61
1-1/2	39.3 ± 1.0	0.45	19.1	1.02 ± 0.15	1.22	61
2	52.7 ± 1.5	0.50	25.4	1.14 ± 0.17	1.22	61
3	77.7 ± 1.5	0.55	38.1	1.27 ± 0.20	1.22	61
4	106.0 ± 3.0	0.60	50.8	1.40 ± 0.22	1.22	30.5