

Basic Properties

- (1) Materials : Irradiated cross-linked semi-rigid polyolefin
- (2) Shrink temperature : min. 140°C
- (3) Shrink Ratio : Radial change: min. 50%
Longitudinal change: min. -15%
- (4) Continuous Operating Temperature : -55 to 135°C

Features

- (1) Semi-rigid
- (2) Highly strength against mechanical
- (3) Highly resistant against abrasion
- (4) Highly resistant against oil and chemicals

Specification/Approvals

SFP standard (R4-0680)

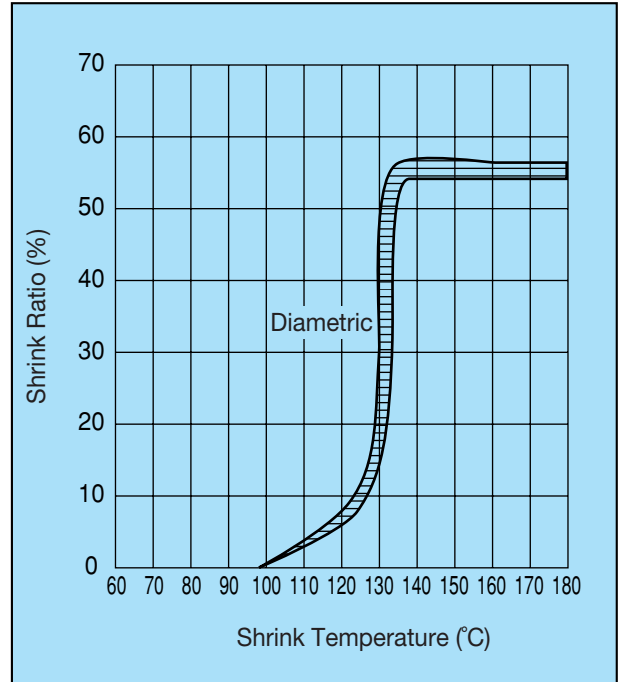
Application

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

Colours

Black, Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White, Clear

Shrink Property



Properties [based on SAE-AMS-DTL-23053/6 Class 2]*2

Properties	Items	Requirements	Typical values*1
Mechanical	Tensile strength (before aging)	min. 13.8MPa	20.0MPa
	Elongation (before aging)	min. 200%	540%
	Elongation (after aging)	175°C x 7 days, min. 100%	525%
	Low temperature flexibility	-55°C x 4 hours, no crack	pass
	Heat shock	250°C x 4 hours, no crack	pass
	Gravity	max. 1.00	0.95
Electrical	Dielectric strength	min. 19.7kV/mm	55.0kV/mm
	Volume resistivity	min. 1.0 x 10 ¹⁴ Ω·cm	1.6 x 10 ¹⁶ Ω·cm
Chemical	Water absorption	23°C x 24 hours, max. 0.20%	0.10%
	Corrosion against bare copper	150°C x 16 hours, no corrosion	pass
	Transparent stability	175°C x 24 hours, no change	pass
	Fluid resistance	After immersed at 24°C x 24 hours,	
	Tensile strength	min. 11.1MPa	22.2MPa
	Dielectric strength	min. 15.8kV/mm	53.5kV/mm
	Flammability	Flammable	—

*1: For reference use only

*2: Sumitube™ D is not approved with SAE-AMS regulation though it covers above properties

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 ± 0.40	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 ± 0.12	1.22
1/2	13.2 ± 0.5	0.35	6.4	0.76 ± 0.12	1.22