SUMITUBE™ D

[Semi-rigid heat-shrinkable tubing]

Catalog No. 828 ✓RoHS directive 10 substances

Waterproofing | Flame-retarded | UL recognized | CSA recognized

Basic Properties

- Material : Irradiated cross-linked semi-rigid polyolefin
- Shrink temperature : min. 140℃
- Shrink ratio : Radial change: min. 50%
  : Longitudinal change: min. -15%
- Continuous operating temperature : -55 to 135℃

Features

- Semi-rigid
- High strength against mechanical abuse
- Highly resistant against abrasion
- Highly resistant against oil and chemicals

Specifications/Approvals

SFP standard (RE4-0680)

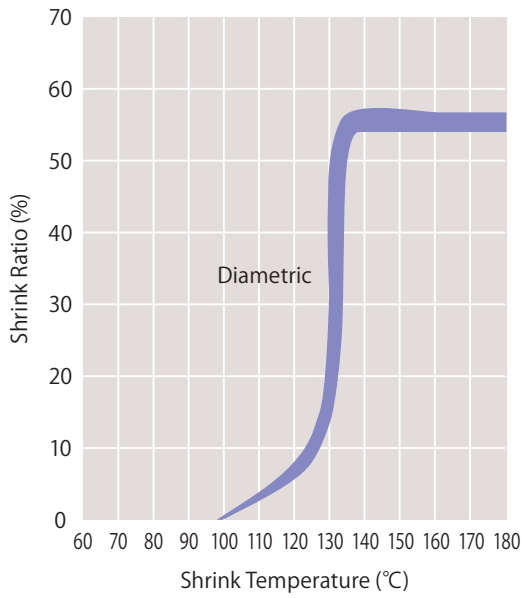
Applications

- Insulation, protection and reinforcement for termination and joints of electric wire which require high strength against mechanical abuse
- Reinforcement by covering
- Mechanical protection for metal wires
- Corrosion protection for pipes

Colors

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

Shrink Properties



Properties

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℃ x 7 days, min. 100%	525%
	Low temperature flexibility	-55℃ x 4 hours, no crack	Pass
	Heat shock	250℃ x 4 hours, no crack	Pass
	Specific gravity	max. 1.00	0.95
Electrical	Dielectric strength	min. 19.7kV/mm	55.0kV/mm
	Volume resistivity	min. 1.0×10^{14} Ω•cm	1.6×10^{16} Ω•cm
Chemical	Water absorption	23℃ x 24 hours, max. 0.20%	0.10%
	Corrosion against bare copper	150℃ x 16 hours, no corrosion	Pass
	Transparency stability	175℃ x 24 hours, no change	Pass
	Fluid resistance	After immersion in the fluids specified in SAE-AS23053 at 23℃ for 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

Sizes

Trade size (inch)	As supplied (mm)		After recovered (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