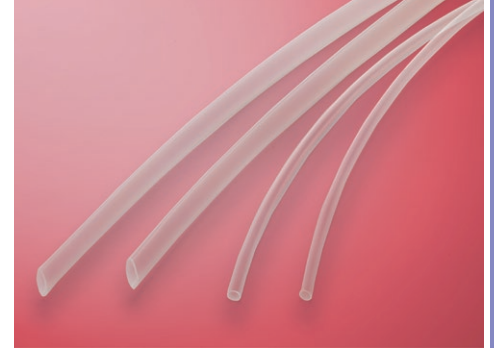


# SUMITUBE™ D

[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°C
- Shrink ratio : Radial change: min. 50%  
: Longitudinal change: min. -15%
- Continuous operating temperature : -55 to 135°C

## Features

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

## Specifications/Approvals

SFP standard (RE4-0680)

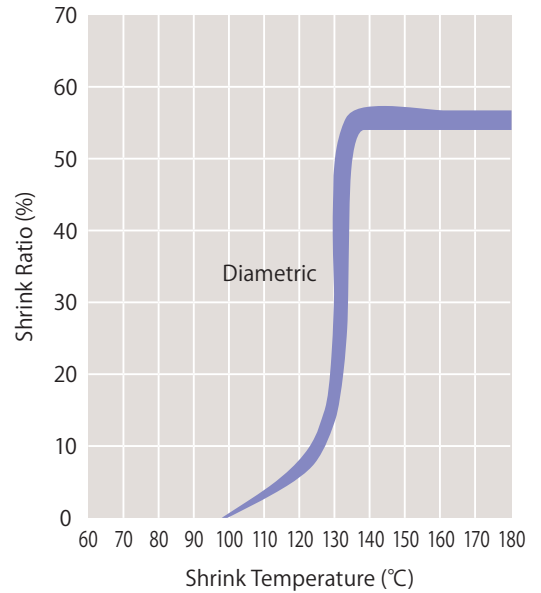
## Applications

- 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°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
Electrical	Dielectric strength	min. 19.7kV/mm	55.0kV/mm
	Volume resistivity	min. $1.0 \times 10^{14} \Omega \cdot \text{cm}$	$1.6 \times 10^{16} \Omega \cdot \text{cm}$
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
	Transparency stability	175°C x 24 hours, no change	Pass
	Fluid resistance	After immersion in the fluids specified in SAE-AS23053 at 23°C 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

SUMITUBE	B
	LB
	F (Z)
	F3 (Z)
SUMITUBE	NHR2
	NHR4
	V (300V)
	V (600V)
	F2 (Z)
	F4 (Z)
SUMITUBE	B2
	B2 (3X)
	B8
SUMITUBE	K
	K2
SUMITUBE	KH200 (TW)
SUMITUBE	KH230 (TW)
	B6
SUMITUBE	R
	AN25
SUMITUBE	W
	O2C
	W3C
	O2B2
	W3F2
SUMITUBE	W3B2
	W3B2 (4X)
	SA2
	SA3

IRRAX™TUBE	A
IRRAX™TAPE	B
	F2
	F2 (UL)
IRRAXTUBE	V2
	RP3
	B8
	ER2
	NHR
	FE2
IRRAXTAPE	VZL

IRRAX™SLEEVE	SCM2
IRRAXSLEEVE	SBI 300/350
	SNHM

Composite articles	SUMISEAL
	SUMITUBE SA3 CAP
Processing equipment	SUMISHRINKER / HEATING GUN