

SUMITUBE™ B6

[Semi-rigid flame-retarded heat-shrinkable tubing]

✓ RoHS directive 10 substances

Waterproofing Flame-retarded UL recognized CSA recognized



Basic Properties

- Material : Irradiated cross-linked semi-rigid flame-retarded polyolefin
- Shrink temperature : min. 130°C
- Shrink ratio : Radial change: min. 50%
Longitudinal change: 0 ±5%
- Continuous operating temperature : -55 to 135°C

Features

- Semi-rigid
- Abrasion resistant

Specifications/Approvals

SFP standard (RE4-H319)

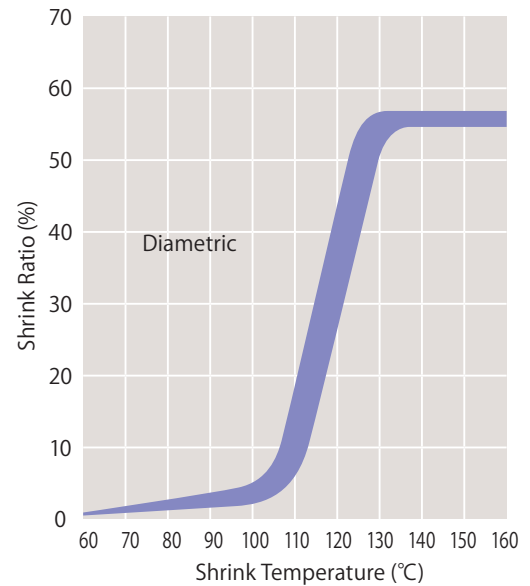
Applications

- Mechanical and chemical protection of wire harnesses used in aerospace equipment
- Holding lengths of sensor wires straight, as well as providing insulation and mechanical protection

Colors

- Black

Shrink Properties



Properties

Properties	Items	Requirements	Typical values*1
Mechanical	Tensile strength (before aging)	min. 13.8MPa	17.0MPa
	Elongation (before aging)	min. 200%	450%
	Elongation (after aging)	175°C x 7 days, min. 150%	425%
	Secant modulus	min. 172MPa	250MPa
	Low temperature flexibility	-55°C x 4 hours, no crack	Pass
Electrical	Dielectric strength	min. 19.7kV/mm	32.2kV/mm
	Volume resistivity	min. 1.0 x 10 ¹⁴ Ω·cm	1.4 x 10 ¹⁵ Ω·cm
Chemical	Water absorption	23°C x 24 hours, max. 0.50%	0.10%
	Specific gravity	max. 1.35	1.25
	Corrosion against bare copper	150°C x 16 hours, no corrosion	Pass
	Fluid resistance	After immersion in the fluids specified in SAE-AS23053 at 23°C for 24 hours,	
	Tensile strength	min. 11.0MPa	16.7MPa
	Dielectric strength	min. 15.8kV/mm	40.1kV/mm
	Flammability	Self-extinguish within 60 sec.	Pass

*1: For reference use only. The test methods is based on SAE-AS23053.

Sizes

Trade size (inch)	As supplied (mm)		After recovered (mm)	
	Inside diameter (min.)	Wall thickness (nom.)	Inside diameter (max.)	Wall thickness
1/8	3.20	0.35	1.60	0.51 ± 0.07
3/16	4.80	0.35	2.36	0.64 ± 0.07
1/4	6.4	0.35	3.20	0.64 ± 0.07
3/8	9.5	0.35	4.80	0.76 ± 0.07
1/2	12.7	0.35	6.4	0.76 ± 0.07

SUMITUBE	A
SUMITUBE	C
SUMITUBE	A4
SUMITUBE	LA
SUMITUBE	C (UL)
SUMITUBE	D
SUMITUBE	A2
SUMITUBE	B
SUMITUBE	LB
SUMITUBE	F (Z)
SUMITUBE	F3 (Z)
SUMITUBE	NHR2
SUMITUBE	NHR4
SUMITUBE	V (300V)
SUMITUBE	V (600V)
SUMITUBE	F2 (Z)
SUMITUBE	F4 (Z)
SUMITUBE	B2
SUMITUBE	B2 (3X)
SUMITUBE	B8
SUMITUBE	K
SUMITUBE	K2
SUMITUBE	KH200 (TW)
SUMITUBE	KH230 (TW)
SUMITUBE	B6
SUMITUBE	R
SUMITUBE	AN25
SUMITUBE	W
SUMITUBE	O2C
SUMITUBE	W3C
SUMITUBE	O2B2
SUMITUBE	W3F2
SUMITUBE	W3B2
SUMITUBE	W3B2 (4X)
SUMITUBE	SA2
SUMITUBE	SA3

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

IRRAX™SLEEVE	SCM2
IRRAX™SLEEVE	SBI 300/350
IRRAX™SLEEVE	SNHM

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