

SUMITUBE™ B2

[Flexible flame-retarded heat-shrinkable tubing]
SAE/UL/CSA recognized

Catalog No. 826  RoHS directive 10 substances

 Waterproofing  Flame-retarded  UL recognized  CSA recognized




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™TUBE	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™TUBE	VZL
IRRAX™SLEEVE	SCM2
IRRAX™SLEEVE	SBI 300/350
IRRAX™SLEEVE	SNHM
Composite articles	SUMISEAL
Composite articles	SUMITUBE SA3 CAP
Processing equipment	SUMISHRINKER / HEATING GUN

Basic Properties

- Material : Irradiated cross-linked flexible flame-retarded polyolefin
- Shrink temperature : min. 90°C
- Shrink ratio : Radial change: min. 50%
Longitudinal change: 0 ±5%
- Continuous operating temperature : -55 to 135°C

Features

- SAE/UL/CSA recognized
- Flame-retarded (PBDE/PBB-free)
- Flexible  Bright colors

Specifications/Approvals

SAE-AS23053/5 Class 1, 3
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

Applications

- Insulation, protection and reinforcement for termination and joints of electric wire
- Color identification and bundling for electric wires
- Insulation and protection of resistors and capacitors

Properties [SAE-AS23053/5 Class 1]

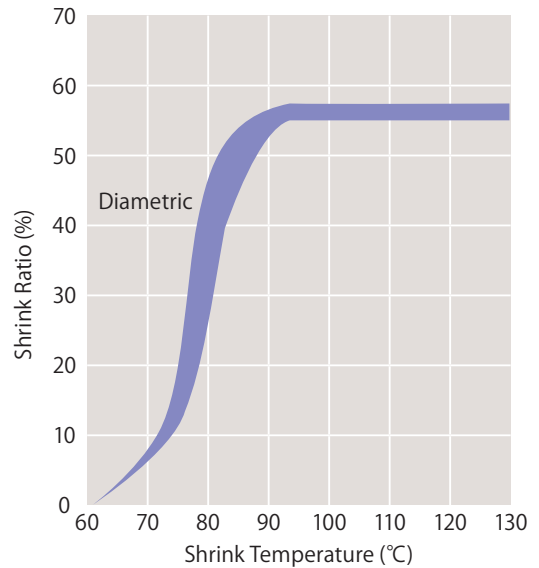
Properties	Items	Requirements	Typical values*1	
Mechanical	Tensile strength (before aging)	min. 10.4MPa	13.4MPa	
	Elongation (before aging)	min. 200%	410%	
	Elongation (after aging)	175°C x 7 days, min. 100%	410%	
	Low temperature flexibility	-55°C x 4 hours, no crack	Pass	
	Heat shock	250°C x 4 hours, no crack	Pass	
Electrical	Specific gravity	max. 1.35	1.32	
	Dielectric strength	min. 19.7kV/mm	37.1kV/mm	
Chemical	Volume resistivity	min. 1.0 x 10 ¹⁴ Ω·cm	3.1 x 10 ¹⁵ Ω·cm	
	Water absorption	23°C x 24 hours, max. 0.50%	0.28%	
	Corrosion against bare copper	175°C x 16 hours, no corrosion	Pass	
	Color stability	175°C x 24 hours, no change	Pass	
	Fluid resistance	After im mersion in the fluids specified in SAE-AS23053 at 23°C for 24 hours,		
	Tensile strength	min. 6.9MPa	13.1MPa	
Dielectric strength	min. 15.8kV/mm	30.5kV/mm		
Flammability(UL224)	Flame-retarded, pass VW-1		Pass	

*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	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	4.75	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

Shrink Properties



Colors

- Black, Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White
- Note: Yellow/Green striped color is available only for limited sizes
- Yellow/Green has no SAE recognized