

SUMITUBE™ O2B2

[Dual wall, flame-retarded heat-shrinkable tubing with meltable adhesive for fixing and waterproofing of straight-shaped objects] SAE/UL/CSA recognized
 Catalog No. 890 ✓ RoHS directive 10 substances



Waterproofing Flame-retarded UL recognized CSA recognized

SUMITUBE	A
	C
	A4
SUMITUBE	LA
	C (UL)
	D
	A2
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

Basic Properties

- Material : Outer : Irradiated cross-linked flexible flame-retarded polyolefin
 : Inner : Meltable adhesive
- Shrink temperature : min. 110°C
- Shrink ratio : Radial change: min. 50%
 : Longitudinal change: +1, -10%
- Continuous operating temperature : -55 to 125°C
 (SAE-AS23053: -55 to 110°C)

Features

- SAE/UL/CSA recognized
- Flame-retarded (PBDE/PBB-free)
- Flexible
- Thinner adhesive (than SUMITUBE™ W3B2)

Specifications/Approvals

UL224
 File No. E75077 Catalog No. SUMITUBE™ O2B2 or 890
 Rating temperature: 125°C Rating voltage: 600V

CSA C22.2 No. 198.1

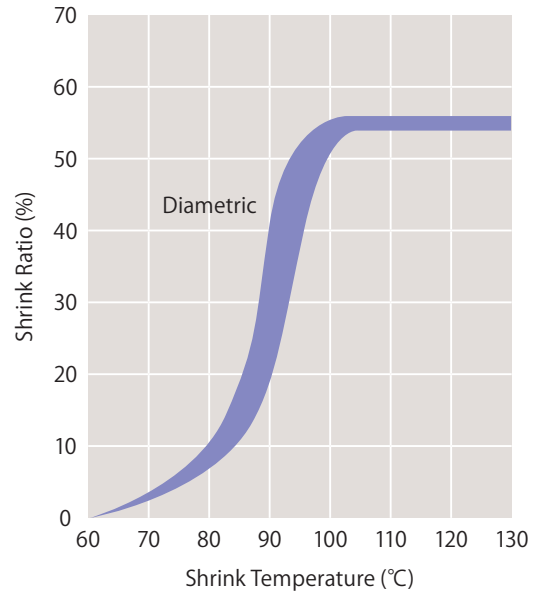
File No. LR33298 Rating temperature: 125°C
 Rating voltage: 600V

SAE-AS23053/4 Class 2

Applications

- Corrosion protection of pipes
- Waterproof sealing for electronic devices
- Insulation and protection for wire joints

Shrink Properties



Colors

- Black

IRRAX™TUBE IRRAX™TAPE

	A
	B
	F2
	F2 (UL)
IRRAXTUBE	V2
	RP3
	B8
	ER2
	NHR
	FE2
IRRAXTAPE	VZL
	SCM2
IRRAXSLEEVE	SBI 300/350
	SNHM

Composite articles

SUMISEAL
SUMITUBE SA3 CAP

Processing equipment

SUMISHRINKER / HEATING GUN

Properties [SAE-AS23053/4 Class 2]

Properties	Items	Requirements	Typical values*1
Mechanical	Tensile strength*2	min. 10.4MPa	14.4MPa
	Elongation	min. 250%	472%
	Cold impact	-55°C x 3 minutes, no crack	Pass
	Heat shock	250°C x 4 hours, no crack	Pass
Electrical	Dielectric strength	min. 11.8kV/mm	41.1kV/mm
	Volume resistivity	min. 10 ¹⁵ Ω·cm	2.11 x 10 ¹⁵ Ω·cm
Chemical	Water absorption	23°C x 24 hours, max. 1.0%	0.49%
	Corrosion against bare copper	121°C x 16 hours, no corrosion	Pass
	Color 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,	Pass
	Tensile strength	min. 6.2MPa	10.4MPa
Dielectric strength	min. 7.9kV/mm	38.1kV/mm	
Flammability (UL224)	Flame-retarded, pass, all tubing flame test	Pass	

*1: For reference use only *2: Calculated by using outer cross section

Sizes

Trade size (inch)	As supplied (mm)		After recocered (mm)		Unit length (min.) (m)
	Inside diameter (min.)	Inside diameter (max.)	Wall thickness*3	Adhesive thickness (nom.)	
1/4	6.4	3.20	0.70 ± 0.10	0.10	1.22
3/8	9.5	4.75	0.70 ± 0.10	0.10	1.22
1/2	12.7	6.4	0.80 ± 0.10	0.10	1.22
3/4	19.1	9.5	0.90 ± 0.10	0.10	1.22
1	25.4	12.7	1.10 ± 0.20	0.20	1.22
1-1/2	38.1	19.1	1.20 ± 0.20	0.20	1.22

*3: Including inner adhesive