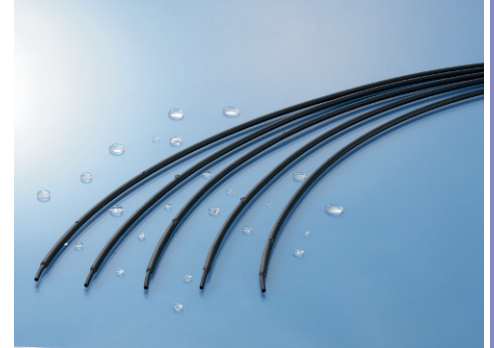


# SUMITUBE™ O2B2

[Dual wall heat-shrinkable tubing with meltable adhesive for fixing and waterproofing of straight-shaped objects]  
SAE-AMS/UL/CSA recognized

Catalog No. 890 ✓ RoHS directive

Waterproofing Flame-retarded UL recognized CSA recognized



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

## 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: min. -15%
- Continuous operating temperature : -55 to 125°C (SAE-AMS-DTL-23053: -55 to 110°C)

## Features

- SAE-AMS/UL224/CSA recognized
- Flame-retarded (PBDE/PBB-free)
- Flexible
- Thinner adhesive (than SUMITUBE™ W3F2)

## Specifications/Approvals

### UL224

File No. E75077 Catalog No. SUMITUBE™ W3F2 or 843  
Rating temperature: 125°C Rating voltage: 600V

### CSA C22.2 No. 198.1

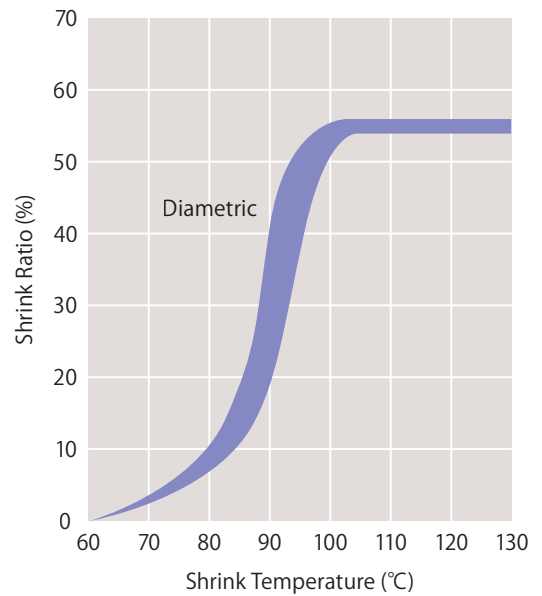
File No. LR33298 Rating temperature: 125°C  
Rating voltage: 600V

SAE-AMS-DTL-23053/4 Class 2 (for select sizes)

## Applications

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

## Shrink Properties



## Colors

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

IRRAX™TUBE
IRRAX™TAPE
A
B
F2
F2 (UL)
V2
IRRAXTUBE RP3
B8
ER2
NHR
NHR4
FE2
IRRAXTAPE VZL
IRRAX™SLEEVE
SCM2
SBI
IRRAXSLEEVE 300/350
SCD
SNHM

## Properties [UL224]

Properties	Items	Requirements	Typical values*1
Mechanical	Tensile strength (before aging)*2	min. 10.4MPa	16.4MPa
	Tensile strength (after aging)*2	158°C x 7 days, min. 7.3MPa	10.5MPa
	Elongation (before aging)	min. 200%	500%
	Elongation (after aging)	158°C x 7 days, min. 100%	305%
	Heat shock	250°C x 4 hours, no crack	Pass
Electrical	Cold bend	-30°C x 1 hour, no crack	Pass
	Dielectric withstand (before aging)	AC2.5kV x 60 sec., no breakdown	Pass
	Dielectric withstand (after aging)	158°C x 7 days, AC2.5kV x 60 sec., no breakdown	Pass
	Dielectric strength (before aging)	min. AC2.5kV	37.5kV
	Dielectric strength (after aging)	158°C x 7 days, min. 50% of original and min. AC2.5kV	Pass
Chemical	Volume resistivity	min. 1.0 x 10 <sup>14</sup> Ω·cm	2.3 x 10 <sup>14</sup> Ω·cm
	Corrosion against bare copper	158°C x 7 days, no corrosion after leaving under 95% humidity, 23°C x 24 hours	Pass
	Flammability	Flame-retarded, pass All Tubing Flame Test	Pass

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

## Sizes

Nominal size (inch)	Supplied ID (mm)		Recovered ID (mm)			Unit length (min.) (m)
	Inside diameter (min.)	Wall thickness*3 (nom.)	Inside diameter (max.)	Wall thickness*3 (nom.)	Adhesive thickness (nom.)	
1/8	3.20	0.40	1.60	0.70	0.20	1.22
3/16	4.80	0.40	2.40	0.70	0.20	1.22
1/4 *4	6.4	0.40	3.20	0.75	0.20	1.22
3/8 *4	9.5	0.40	4.80	0.75	0.20	1.22
1/2 *4	12.7	0.40	6.4	0.75	0.20	1.22
3/4	19.1	0.50	9.5	0.90	0.20	1.22
1 *4	25.4	0.55	12.7	1.10	0.20	1.22

\*3: Including inner adhesive \*4: SAE-AMS-DTL-23053 approved