

SUMITUBE™ A2

[Clear flexible heat-shrinkable tubing]
SAE-AS-23053

Catalog No. 825 ✓ RoHS directive 10 substances

Waterproofing Flame-retarded UL recognized CSA recognized



SUMITUBE™

SUMITUBE	A
	C
	A4
	LA
	C (UL)
	D
A2	

Basic Properties

- Material : Irradiated cross-linked flexible polyolefin
- Shrink temperature : min. 110°C
- Shrink ratio : Radial change: min. 50%
Longitudinal change: 0 ±5%
- Continuous operating temperature : -55 to 135°C

Features

- SAE-AS23053 approved
- Transparent colors
- Flexible

Specifications/Approvals

SAE-AS23053/5 Class 2

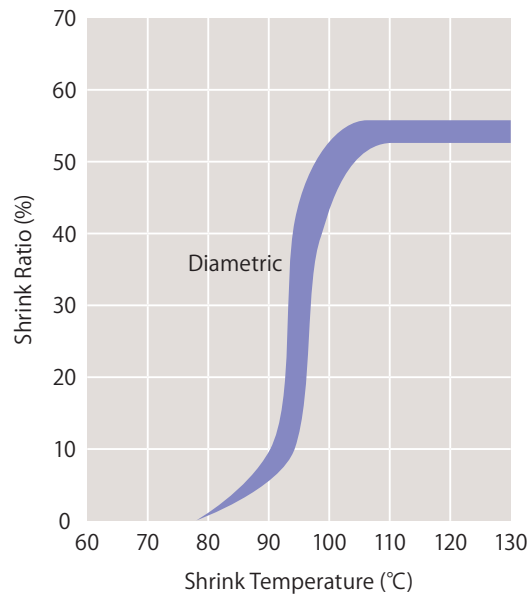
Applications

- Insulation, protection and reinforcement for termination and joints of electric wire
- Fixing and protection of cable markers

Colors

- Clear

Shrink Properties



Properties [SAE-AS23053/5 Class 2]

Properties	Items	Requirements	Typical values*1
Mechanical	Tensile strength (before aging)	min. 10.4MPa	20.4MPa
	Elongation (before aging)	min. 200%	520%
	Elongation (after aging)	175°C x 7 days, min. 100%	425%
	Low temperature flexibility	-55°C x 4 hours, no crack	Pass
	Heat shock	250°C x 4 hours, no crack	Pass
	Specific gravity	max. 1.00	0.92
Electrical	Dielectric strength	min. 19.7kV/mm	38.8kV/mm
	Volume resistivity	min. $1.0 \times 10^{14} \Omega \cdot \text{cm}$	$5.2 \times 10^{15} \Omega \cdot \text{cm}$
Chemical	Water absorption	23°C x 24 hours, max. 0.50%	0.10%
	Corrosion against bare copper	175°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. 6.9MPa	13.7MPa
	Dielectric strength	min. 15.8kV/mm	41.9kV/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	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	0.63 ± 0.07	1.22	61
3/8	10.0 ± 0.4	0.30	4.75	0.63 ± 0.07	1.22	61
1/2	13.2 ± 0.5	0.30	6.4	0.63 ± 0.07	1.22	61
3/4	20.0 ± 0.6	0.40	9.5	0.77 ± 0.07	1.22	61
1	26.6 ± 0.8	0.45	12.7	0.88 ± 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	1.13 ± 0.17	1.22	61
3	77.7 ± 1.5	0.55	38.1	1.30 ± 0.20	1.22	61
4	106.0 ± 3.0	0.60	50.8	1.40 ± 0.22	1.22	30.5

SUMITUBE

B

LB

F (Z)

F3 (Z)

NHR2

NHR4

V (300V)

V (600V)

F2 (Z)

F4 (Z)

B2

B2 (3X)

B8

K

K2

SUMITUBE KH200 (TW)

SUMITUBE KH230 (TW)

B6

SUMITUBE R

AN25

SUMITUBE W

O2C

W3C

O2B2

W3F2

W3B2

SUMITUBE W3B2 (4X)

SA2

SA3

IRRAX™TUBE

IRRAX™TAPE

A

B

F2

F2 (UL)

V2

IRRAXTUBE 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