

SUMITUBE™ R

[Rubber-like, flame-retarded heat-shrinkable tubing]
SAE

✓ RoHS directive 10 substances

Waterproofing Flame-retarded UL recognized CSA recognized

kacab
www.kacab.se



Basic Properties

- Material : Irradiated cross-linked flexible flame-retarded polyolefin
- Shrink temperature : min. 130°C
- Shrink ratio : Radial change: min. 50%
: Longitudinal change: min. -10%
- Continuous operating temperature : -70 to 121°C

Features

- SAE Flexible
- Flame-retarded Highly resistant against oil

Specifications/Approvals

SAE-AS23053/1 Class 1, 2

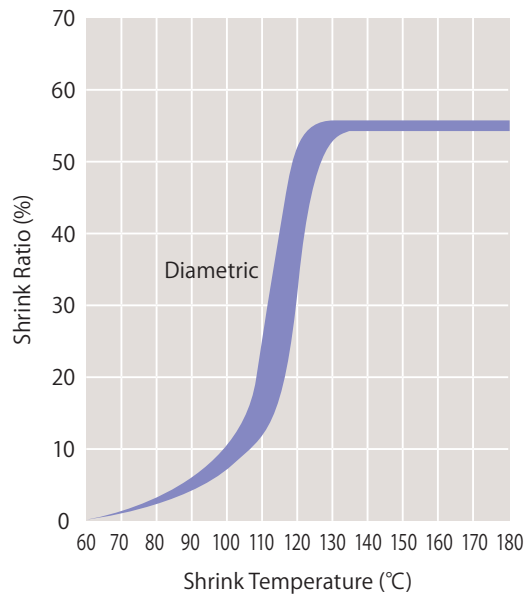
Applications

- Used for roller lining as a rubber substitute
- Insulation, protection and reinforcement for wire and devices where flexibility is required
- Insulating rubber-sheathed cable joints
- Preventing buckling in lead wires

Colors

- Black

Shrink Properties



Properties [SAE-AS23053/1 Class 2]

Properties	Items	Requirements	Typical values*1
Mechanical	Tensile strength (before aging)	min. 10.4MPa	16.0MPa
	Elongation (before aging)	min. 225%	495%
	Elongation (after aging)	121°C x 7 days, min. 175%	430%
	Low temperature flexibility	-70°C x 4 hours, no crack	Pass
	Heat shock	200°C x 4 hours, no crack	Pass
Electrical	Dielectric strength (before aging)	min. 11.8kV/mm	25.0kV/mm
	Dielectric strength (after aging)	121°C x 7 days, min. 19.7kV/mm	23.5kV/mm
	Volume resistivity	min. $1.0 \times 10^{14} \Omega \cdot \text{cm}$	$3.1 \times 10^{16} \Omega \cdot \text{cm}$
Chemical	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. 6.9MPa	12.2MPa
	Elongation	min. 175%	433%
	Dielectric strength	min. 9.8kV/mm	23.0kV/mm
	Flammability	ASTM D2671 Procedure A	Pass

*1: For reference use only

Sizes

Trade size (inch)	As supplied (mm)		After recovered (mm)		Unit length (min.) (m)
	Inside diameter (min.)	Wall thickness (nom.)	Inside diameter (max.)	Wall thickness	
1/4	6.4	0.45	3.20	0.89 ± 0.25	61
3/8	9.5	0.55	4.80	1.01 ± 0.25	30.5
1/2	12.7	0.60	6.4	1.22 ± 0.38	30.5
3/4	19.1	0.70	9.5	1.45 ± 0.38	30.5
1	25.4	0.90	12.7	1.78 ± 0.51	30.5
1-1/4	31.8	1.00	15.9	2.20 ± 0.51	30.5
1-1/2	38.1	1.20	19.1	2.41 ± 0.51	30.5
1-3/4	44.5	1.30	22.2	2.71 ± 0.51	30.5
2	50.8	1.30	25.4	2.79 ± 0.51	30.5

SUMITUBE™

A
C
A4
LA
C (UL)
D
A2

B
LB

F (Z)
F3 (Z)
NHR2
NHR4
V (300V)
V (600V)

F2 (Z)
F4 (Z)
B2
B2 (3X)
B8

K
K2

KH200 (TW)
KH230 (TW)

B6
R
AN25

W

O2C
W3C

O2B2
W3F2
W3B2
W3B2 (4X)
SA2
SA3

IRRAX™TUBE IRRAX™TAPE

A
B
F2
F2 (UL)
V2
RP3
B8
ER2
NHR
FE2
VZL

IRRAX™SLEEVE

SCM2
SBI
300/350
SNHM

Composite articles

SUMISEAL
SUMITUBE SA3 CAP

Processing equipment

SUMISHRINKER / HEATING GUN