

SUMITUBE™ K

[Highly heat/oil/chemical resistant, clear, flame-retarded heat-shrinkable tubing] SAE/UL/CSA recognized

Catalog No. 852 ✓ RoHS directive 10 substances

Waterproofing Flame-retarded UL recognized CSA recognized



Basic Properties

- Material : Irradiated cross-linked semi-rigid flame-retarded PVDF
- Shrink temperature : min. 170°C
- Shrink ratio : Radial change: min. 50% Longitudinal change (K): 0 ±10%
- Continuous operating temperature : -55 to 175°C

Features

- SAE/UL/CSA recognized
- Flame-retarded
- Transparent colors
- Thin wall
- Semi-rigid
- Highly resistant against oil and chemicals

Specifications/Approvals

SAE-AS23053/8

UL224

File No. E75077 Catalog No. SUMITUBE™ K or 852

Rating temperature: 150°C Rating voltage: 600V Flammability: VW-1

CSA C22.2 No. 198.1

File No. LR33298 Rating temperature: 150°C Rating voltage: 600V

Flammability: VW-1

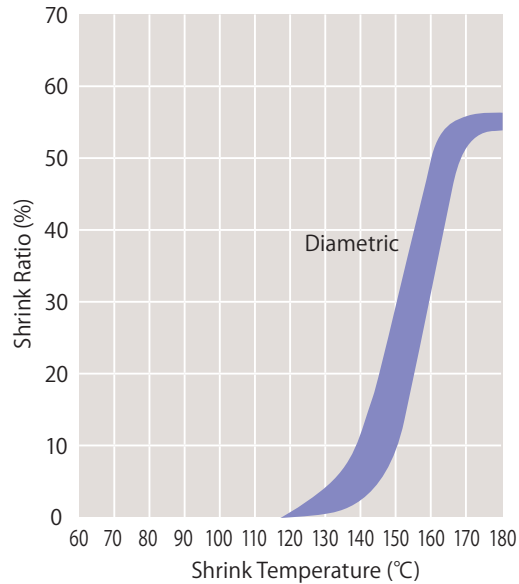
Electrical Appliance and Material Safety Law (Japan)

Flammability rating (-F-) test registration No.: F-ST53-017 to F-ST53-020

Applications

- Insulation, protection and reinforcement for termination and joints of electric wire
- Protection for wire and devices which are used under high temperature or exposed to chemicals and oils
- Mechanical protection for metal wire
- Fixing and protection of cable markers
- Insulation and protection of thermistors, resistors and capacitors

Shrink Properties



Colors

- Clear

Properties [SAE-AS23053/8]

Properties	Items	Requirements	Typical values*1
Mechanical	Tensile strength (before aging)	min. 34.5MPa	41.0MPa
	Elongation (before aging)	min. 150%	405%
	Elongation (after aging)	250°C x 7 days, min. 50%	357%
	Low temperature flexibility	-55°C x 4 hours, no crack	Pass
	Heat shock	300°C x 4 hours, no crack	Pass
Electrical	Specific gravity	max. 1.80	1.75
	Dielectric strength	min. 31.5kV/mm (for 1/2 inch and smaller) min. 23.6kV/mm (for over 1/2 inch)	43.6kV/mm 31.4kV/mm
	Volume resistivity	min. 1.0 x 10 ¹³ Ω·cm	3.8 x 10 ¹⁵ Ω·cm
Chemical	Transparent 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. 34.5MPa	38.1MPa
	Dielectric strength	min. 19.7kV/mm	28.6kV/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 (min.)	Wall thickness (nom.)	Inside diameter (max.)	Wall thickness	
3/64	1.20	0.10	0.60	0.25 ± 0.05	1.22
1/16	1.60	0.10	0.80	0.25 ± 0.05	1.22
3/32	2.40	0.12	1.20	0.27 ± 0.04	1.22
1/8	3.20	0.12	1.60	0.27 ± 0.04	1.22
3/16	4.80	0.12	2.40	0.27 ± 0.04	1.22
1/4	6.4	0.14	3.20	0.33 ± 0.05	1.22
3/8	9.5	0.14	4.75	0.33 ± 0.05	1.22
1/2	12.7	0.14	6.4	0.33 ± 0.05	1.22
3/4	19.1	0.18	9.5	0.43 ± 0.07	1.22
1	25.4	0.20	12.7	0.48 ± 0.07	1.22

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
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

