

SUMITUBE™ K2

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

Catalog No. 875 RoHS directive 10 substances



SUMITUBE™	
A	
C	
A4	
LA	
C (UL)	
D	
A2	
SUMITUBE	
B	
LB	
SUMITUBE	
F (Z)	
F3 (Z)	
NHR2	
NHR4	
V (300V)	
V (600V)	
SUMITUBE	
F2 (Z)	
F4 (Z)	
B2	
B2 (3X)	
B8	
SUMITUBE	
K	
K2	
SUMITUBE	
KH200 (TW)	
SUMITUBE	
KH230 (TW)	
B6	
SUMITUBE	
R	
AN25	
SUMITUBE	
W	
SUMITUBE	
O2C	
W3C	
SUMITUBE	
O2B2	
W3F2	
W3B2	
W3B2 (4X)	
SA2	
SA3	
IRRAX™TUBE	
IRRAX™TAPE	
A	
B	
F2	
F2 (UL)	
V2	
RP3	
B8	
ER2	
NHR	
FE2	
IRRAX™TAPE	
VZL	
IRRAX™SLEEVE	
SCM2	
IRRAX™SLEEVE	
SBI 300/350	
SNHM	
Composite articles	
SUMISEAL	
SUMITUBE SA3 CAP	
Processing equipment	
SUMISHRINKER / HEATING GUN	

Basic Properties

- Material : Irradiated cross-linked semi-rigid flame-retarded PVDF
- Shrink temperature : min. 150°C
- Shrink ratio : Radial change: min. 50%
: Longitudinal change (K2): -10 to 5%
- Continuous operating temperature : -55 to 175°C

Features

- SAE/UL recognized
- Flame-retarded
- Transparent colors
- Thin wall
- Semi-rigid (more flexible than SUMITUBE K)
- Highly resistant against oil and chemicals
- Available on spools

Specifications/Approvals

SAE-AS23053/18 Class 1

UL224

File No. E70631 Catalog No. SUMITUBE™ K2 or 875
Flammability: VW-1

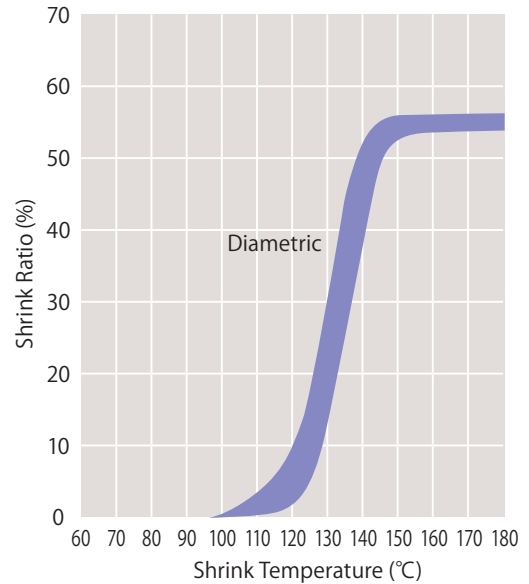
Electrical Appliance and Material Safety Law (Japan)

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

- Black, Red, Green, Blue, White, Clear

Properties [SAE-AS23053/18 Class 1]

Properties	Items	Requirements	Typical values*1
Mechanical	Tensile strength (before aging)	min. 24.1MPa	37.8MPa
	Elongation (before aging)	min. 200%	404%
	Elongation (after aging)	250°C x 7 days, min. 100%	383%
	Low temperature flexibility	-55°C x 4 hours, no crack	Pass
	Heat shock	275°C x 4 hours, no crack	Pass
Electrical	Specific gravity	max. 1.90	1.75
	Dielectric strength	min. 15.7kV/mm	35.4kV/mm
	Volume resistivity	min. 1.0 x 10 ¹¹ Ω·cm	2.8 x 10 ¹⁵ Ω·cm
Chemical	Transparent stability	200°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. 13.9MPa	37.4MPa
	Dielectric strength	min. 15.7kV/mm	25.2kV/mm
	Elongation	min. 100%	419%
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	305
1/16	1.60	0.10	0.80	0.25 ± 0.05	305
3/32	2.40	0.12	1.20	0.27 ± 0.04	152.5
1/8	3.20	0.12	1.60	0.27 ± 0.04	152.5
3/16	4.80	0.12	2.40	0.27 ± 0.04	61
1/4	6.4	0.14	3.20	0.33 ± 0.05	61
3/8	9.5	0.14	4.75	0.33 ± 0.05	61
1/2	12.7	0.14	6.4	0.33 ± 0.05	61
3/4	19.1	0.18	9.5	0.43 ± 0.07	61
1	25.4	0.20	12.7	0.48 ± 0.07	61