SUMITUBE™ K

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

Catalog No. 852 ✓RoHS directive

Waterproofing | Flame-retarded | UL recognized | CSA recognized

Basic Properties

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

Features

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

Specifications/Approvals

SAE-AMS-DTL-23053/8

UL224
File No. E75077 Catalog No. SUMITUBE™ K or 852
Rating temperature: 150℃ Rating voltage: 600V Flammability: VW-1

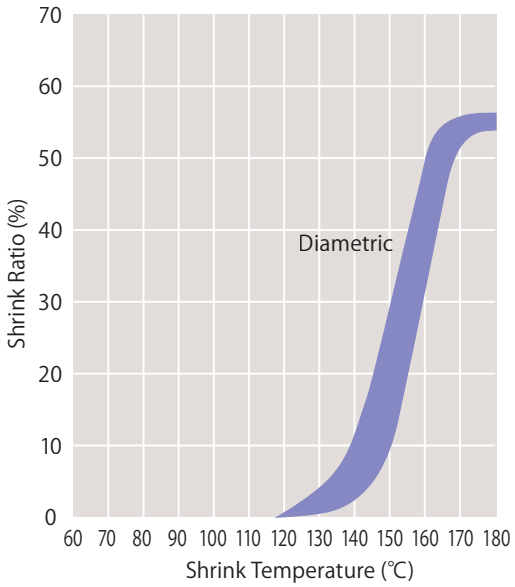
CSA C22.2 No. 198.1
File No. LR33298 Rating temperature: 150℃ Rating voltage: 600V
Flammability: VW-1
Electrical Appliance and Material Safety Law (Japan)

Flammability rating (-F-) test registration No.: F-STS3-017 to F-STS3-020

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-AMS-DTL-23053/8]

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℃ x 7 days, min. 50%	357%
	Low temperature flexibility	-55℃ x 4 hours, no crack	Pass
	Heat shock	300℃ x 4 hours, no crack	Pass
	Specific gravity	max. 1.80	1.75
Electrical	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℃ x 24 hours, no change	Pass
	Fluid resistance	After immersion at 24℃ x 24 hours,	
	Tensile strength	min. 34.5MPa	38.1MPa
	Dielectric strength	min. 19.7kV/mm	28.6kV/mm
	Flammability	Flame-retarded, pass VW-1	Pass

*1: For reference use only

Sizes

Nominal size (inch)	Supplied ID (mm)		Recovered ID (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	4.80	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