

Basic Properties

- (1) Materials : Outer: Irradiated cross-linked flexible flame-retardant polyolefin
Inner: Meltable adhesive
- (2) Shrink temperature : min. 110°C
- (3) Shrink Ratio : Radial change: min. 60%
Longitudinal change: min. -15%
- (4) Continuous Operating Temperature : -55 to 125°C

Features

- (1) UL/CSA approved
- (2) Highly waterproofing with well adhesion for metals, polyolefin and PVC
- (3) Effective for waterproofing of large gap objects
- (4) Flame-retardant
- (5) Flexible
- (6) Thicker adhesive (than Sumitube™ O2B2)

Specification/Approvals

UL224

File No. E75077
Catalog No. Sumitube™ W3F2 or 843
Rating temperature: 125°C
Rating voltage: 600V

CSA C22.2 No. 198.1

File No. LR33298
Rating temperature: 125°C
Rating voltage: 600V

Marking on the surface

CSA HS X PO MELTABLE LINER 125°C ♦ SUMITOMO-K SUMITUBE W3F2 843 125°C

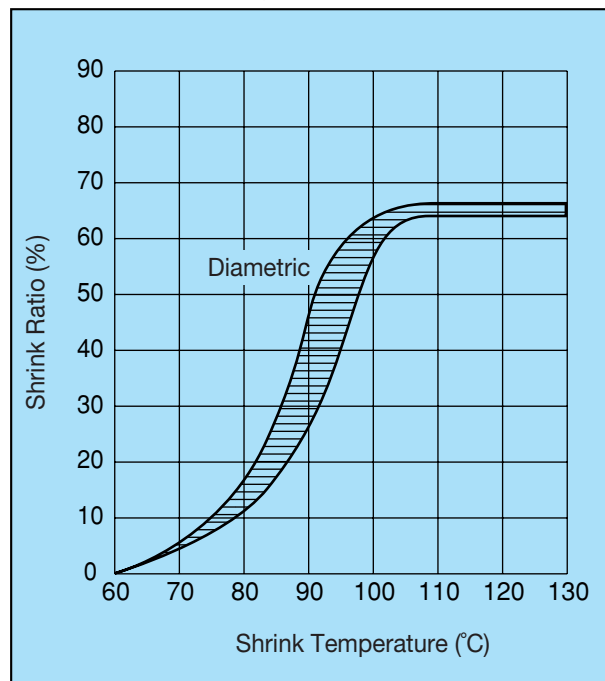
Application

- (1) Waterproof sealing for electronic devices with large gap
- (2) Encapsulation for wire branches
- (3) Insulation and protection for wire joints

Colours

Black, Brown, Red, Orange, Yellow, Green, Blue, Purple, Grey, White

Shrink Property



Properties [UL224]

Properties	Items	Requirements	Typical values* ¹
Mechanical	Tensile strength (before aging)* ²	min. 10.4MPa	12.0MPa
	Tensile strength (after aging)* ²	158°C x 7 days, min. 7.3MPa	11.6MPa
	Elongation (before aging)	min. 200%	438%
	Elongation (after aging)	158°C x 7 days, min. 100%	425%
	Heat shock	250°C x 4 hours, no crack	pass
	Cold bend	-30°C x 1 hour, no crack	pass
Electrical	Voltage resistance (before aging)	AC2.5kV x 60 sec., no breakdown	pass
	Voltage resistance (after aging)	158°C x 7 days, AC2.5kV x 60 sec., no breakdown	pass
	Dielectric strength (before aging)	min. AC2.5kV	24.9kV
	Dielectric strength (after aging)	158°C x 7 days, min. 50% of original and min. AC2.5kV	pass
	Volume resistivity	min. $1.0 \times 10^{14} \Omega \cdot \text{cm}$	$4.4 \times 10^{14} \Omega \cdot \text{cm}$
Chemical	Corrosion against bare copper	158°C x 7 days, no corrosion after leaving under humidity 95%, 23°C x 24 hours	pass
	Flammability	Flame-retardant, pass ALL TUBING FLAME TEST	pass

*1: For reference use only

*2: Calculated by using outer cross section

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 (nom.)*	Adhesive thickness (nom.)	
1/8	3.20	0.35	0.60	0.95	0.35	1.22
3/16	4.80	0.45	1.50	1.10	0.60	1.22
1/4	6.4	0.45	2.00	1.20	0.65	1.22
3/8	9.5	0.50	3.00	1.30	0.65	1.22
1/2	12.7	0.55	4.00	1.40	0.75	1.22
3/4	19.1	0.65	8.0	1.60	0.80	1.22
1	25.4	0.75	10.2	1.90	0.80	1.22

*Including inner adhesive