

[125°C rating, semi-rigid flame-retarded heat-shrinkable tubing] UL/CSA recognized

Catalog No. 846 ✓ RoHS directive 10 substances

Waterproofing Flame-retarded UL recognized CSA recognized



### Basic Properties

- Material : Irradiated cross-linked semi-rigid flame-retarded polyolefin
- Shrink temperature : min. 130°C
- Shrink ratio : Radial change: min. 50% Longitudinal change: 0 ±5%
- Continuous operating temperature : -55 to 125°C

### Features

- UL/CSA recognized
- Semi-rigid
- Flame-retarded (PBDE/PBB-free)

### Specifications/Approvals

#### UL224

File No. E48762 Catalog No. SUMITUBE™ B8 or 846  
Rating temperature: 125°C Rating voltage: 600V Flammability: VW-1

#### CSA C22.2 No. 198.1

File No. LR33298 Rating temperature: 125°C  
Rating voltage: 600V Flammability: VW-1

Electrical Appliance and Material Safety Law (Japan)

Flammability rating (-F-) test registration No.: F-ST53-009 to F-ST53-012

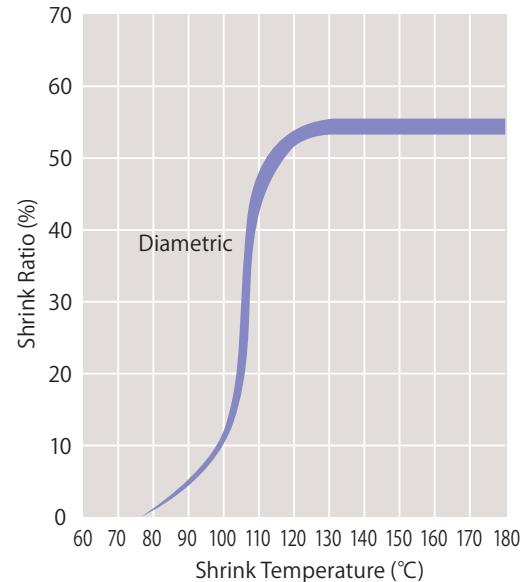
### Marking on Surface

◆SUMITOMO-K CSA SR HS X PO TUBING 125°C SUMITUBE

### Applications

- Insulation, protection and reinforcement for termination and joints of electric wire which require high strength mechanical abuse
- Corrosion protection for pipes

### Shrink Properties



### Colors

- Black, Brown, Red, Orange, Yellow, Green, Blue, Purple, Gray, White

### Properties [UL224]

| Properties | Items                               | Requirements   | Typical values*1            |
|------------|-------------------------------------|--|-----------------------------|
| Mechanical | Tensile strength (before aging)     | min. 13.8MPa   | 19.0MPa                     |
|            | Tensile strength (after aging)      | 158°C x 7 days, min. 9.7MPa  | 17.1MPa                     |
|            | Elongation (before aging)           | min. 200%  | 340%                        |
|            | Elongation (after aging)            | 158°C x 7 days, min. 100%  | 340%                        |
|            | Heat shock                          | 250°C x 4 hours, no crack  | Pass                        |
| Electrical | Cold bend                           | -30°C x 1 hour, no crack   | Pass                        |
|            | Dielectric withstand (before aging) | AC2.5kV x 60 sec., no breakdown  | Pass                        |
|            | Dielectric withstand (after aging)  | 158°C x 7 days, AC2.5kV x 60 sec., no breakdown  | Pass                        |
|            | Dielectric breakdown (before aging) | min. AC2.5kV   | 15.0kV                      |
|            | Dielectric breakdown (after aging)  | 158°C x 7 days, min. 50% of original and min. AC2.5kV                                  | Pass                        |
| Chemical   | Volume resistivity                  | min. 1.0 x 10 <sup>14</sup> Ω·cm   | 2.3 x 10 <sup>16</sup> Ω·cm |
|            | Corrosion against bare copper       | 158°C x 7 days, no corrosion after leaving under 95% humidity, 23°C x 24 hours         | Pass                        |
|            | Stability against copper            | 158°C x 7 days, elongation min. 100% after leaving under 95% humidity, 23°C x 24 hours | 304%                        |
|            | Flammability                        | 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  | Wall thickness (nom.) | Inside diameter (max.) | Wall thickness |                        |
| 3/64              | 1.60 ± 0.30      | 0.25                  | 0.60                   | 0.51 ± 0.07    | 1.22                   |
| 1/16              | 2.00 ± 0.30      | 0.25                  | 0.80                   | 0.51 ± 0.07    | 1.22                   |
| 3/32              | 2.70 ± 0.30      | 0.25                  | 1.20                   | 0.51 ± 0.07    | 1.22                   |
| 1/8               | 3.50 ± 0.30      | 0.25                  | 1.60                   | 0.51 ± 0.07    | 1.22                   |
| 3/16              | 5.20 ± 0.30      | 0.30                  | 2.40                   | 0.64 ± 0.07    | 1.22                   |
| 1/4               | 6.8 ± 0.4        | 0.30                  | 3.20                   | 0.64 ± 0.07    | 1.22                   |
| 3/8               | 10.0 ± 0.4       | 0.35                  | 4.80                   | 0.76 ± 0.07    | 1.22                   |
| 1/2               | 13.2 ± 0.5       | 0.35                  | 6.4                    | 0.76 ± 0.07    | 1.22                   |
| 3/4               | 20.0 ± 0.6       | 0.35                  | 9.5                    | 0.76 ± 0.07    | 1.22                   |
| 1                 | 26.6 ± 0.8       | 0.40                  | 12.7                   | 0.89 ± 0.12    | 1.22                   |

|          |
|----------|
| 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 |
|----------------------------|