

# GSHS – 1625T

2:1 SHRINK RATIO, HIGHLY FLEXIBLE, FLAME RETARDANT, THIN WALL POLYOLEFIN TUBING

## Applications

GSHS-1625T is a highly flexible, flame retardant, thin wall heat shrinkable polyolefin tube. It is designed for rapid shrinking and greater packaging density, including insulation for electric & electronic devices, wire strain relief and protective covering for parts such as resistors and capacitors.

## Features

- ★ In stock for immediate shipments
- ★ Shrink ratio: 50% or more in the radial direction, 7% or less in the axial direction
- ★ Continuous operating temperature: - 55°C to 125°C
- ★ Flammability: UL VW-1, CSA OFT, -F-MARK
- ★ Rapid shrinking
- ★ Excellent electrical properties
- ★ High resistance to chemicals and oils

## Standard

- ★ UL 224 (File Number: E84393)
- ★ CSA C22.2 (File Number: LR55659)

## Specification Values

| Property       |                     | Test Method      | Value                          |   |
|----------------|---------------------|------------------|--------------------------------|---|
| Physical       | Unaged              | Tensile strength | ASTM D 638                     | Min. 1.06 kgf/mm <sup>2</sup>             |
|                |                     | Elongation       |                                | Min. 200%                                 |
|                | Aged                | Tensile strength | 158°C/168 hrs                  | Min. 70% of the value of unaged specimens |
|                |                     | Elongation       |                                | Min. 100%                                 |
|                | Deformation         |                  | 125°C/1 hr                     | Max. 50%                                  |
|                | Heat shock          |                  | 136°C/1 hr                     | No crack                                  |
|                | Cold bend           |                  | - 30°C/1 hr                    | No crack                                  |
|                | Flexibility         |                  | 158°C/168 hrs                  | No crack                                  |
| Secant Modulus |                     | -                | Max. 17.64 kgf/mm <sup>2</sup> |   |
| Electrical     | Dielectric strength |                  | -                              | Min. 2.5kV/1 minute                       |
|                | Volume resistivity  |                  | -                              | Min. 10 <sup>14</sup> Ω - cm              |
| Chemical       | Copper corrosion    |                  | 158°C/168 hrs                  | No corrosion                              |
|                | Copper stability    |                  | 158°C/168 hrs                  | No sign of degradation                    |
|                | Flammability        |                  | VW-1                           | Pass                                      |

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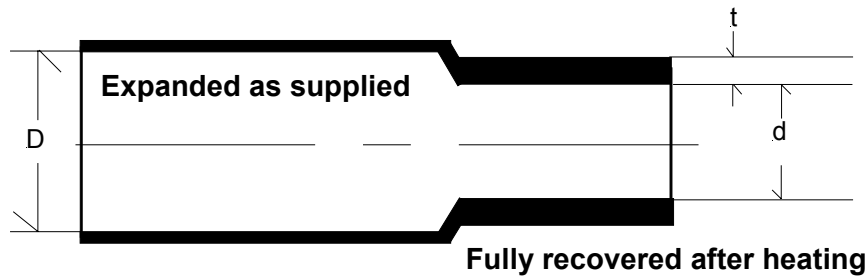
Dunbar Associates

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## Product Dimensions

Minimum Shrink Temperature: 75°C

| Size        | Expanded                      |     | Recovered                     |      |                                  |       | Standard Spool Length           |
|-------------|-------------------------------|-----|-------------------------------|------|----------------------------------|-------|---------------------------------|
|             | Internal Diameter Minimum (D) |     | Internal Diameter Maximum (d) |      | Minimum Total Wall Thickness (t) |       |                                 |
| Inch Size   | In.                           | mm  | In.                           | mm   | In.                              | mm    | Ft.                             |
| 3/64"       | 0.055                         | 1.4 | 0.023                         | 0.58 | 0.007                            | 0.180 | 500                             |
| 1/16"       | 0.071                         | 1.8 | 0.031                         | 0.79 | 0.007                            | 0.180 | 500                             |
| 3/32"       | 0.102                         | 2.6 | 0.046                         | 1.17 | 0.010                            | 0.250 | 500                             |
| 1/8"        | 0.134                         | 3.4 | 0.062                         | 1.57 | 0.010                            | 0.250 | 500                             |
| 3/16"       | 0.197                         | 5.0 | 0.093                         | 2.36 | 0.010                            | 0.250 | 250                             |
| 1/4"        | 0.250                         | 6.6 | 0.125                         | 3.18 | 0.010                            | 0.250 | 250                             |
| Metric Size | Available for special orders  |     |                               |      |                                  |       |                                 |
| 1.0         | 0.051                         | 1.3 | 0.020                         | 0.50 | 0.007                            | 0.180 | Cut to meet your special orders |
| 1.5         | 0.071                         | 1.8 | 0.030                         | 0.75 | 0.007                            | 0.180 |                                 |
| 2.0         | 0.091                         | 2.3 | 0.040                         | 1.00 | 0.007                            | 0.180 |                                 |
| 2.5         | 0.110                         | 2.8 | 0.050                         | 1.25 | 0.010                            | 0.250 |                                 |
| 3.0         | 0.127                         | 3.2 | 0.060                         | 1.50 | 0.010                            | 0.250 |                                 |
| 3.5         | 0.150                         | 3.8 | 0.069                         | 1.75 | 0.010                            | 0.250 |                                 |
| 4.0         | 0.177                         | 4.5 | 0.079                         | 2.00 | 0.010                            | 0.250 |                                 |
| 5.0         | 0.217                         | 5.5 | 0.098                         | 2.50 | 0.010                            | 0.250 |                                 |
| 6.0         | 0.256                         | 6.5 | 0.118                         | 3.00 | 0.010                            | 0.250 |                                 |

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