

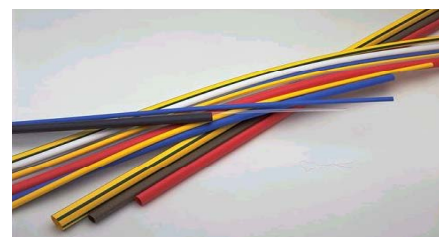


## GTI 3000

### Heat Shrink

### Thin Wall Tubing

#### Data Sheet



#### Product Description

Flexible, thin walled heat shrink tubing, made of cross linked, halogen free polyolefin. The tubing meets the latest requirements regarding shrinking time, flexibility, and material characteristics. The tubing shrinks when heat is applied. Simple and fast installation, excellent electrical and mechanical properties. Available in a range of colours and sizes.

#### Applications

GTI 3000 is designed to provide excellent insulation and protection in various industrial applications. The large diameter range, and 3:1 shrink ratio offers many solutions within a small range of products. GTI 3000 is available in a wide range of colours, with a shiny, smooth, particle free surface. Suitable for cable marking and identification applications. GTI 3000 fulfills the strict requirements of many standards, including RoHS. Easy to install, little training required, saves time. Reliable product, meets domestic, commercial, and industrial needs.

#### Typical Data/Physical Properties

The irradiated Cross linked Polyolefin tubing is supplied in practical and convenient packaging.

Continuous Operating Temperature.....-55°C to +135°C

Base material ..... Polyolefin

Shrink Ratio ..... (up to 39 mm)3:1

Shrink Temperature ..... 120°C (Min.)

Flame resistance..... not self-extinguishing

#### Colours

|        |              |
|--------|--------------|
| Black  | White        |
| Blue   | Brown        |
| Red    | Clear        |
| Yellow | Green/Yellow |

#### Dimensions

| Part Number        | Application<br>Cable Range<br>diameter (mm) | Diameter<br>Expanded, as<br>supplied (mm) | Diameter<br>Recovered, fully<br>shrunk (mm) | Wall thickness<br>Recovered, nominal<br>(mm) |
|--------------------|---------------------------------------------|-------------------------------------------|---------------------------------------------|----------------------------------------------|
| GTI-3000 1.5/0.5 * | 0.6 – 1.2                                   | 1.5                                       | 0.5                                         | 0.45                                         |
| GTI-3000 3/1       | 1.2 – 3                                     | 3.0                                       | 1.0                                         | 0.55                                         |
| GTI-3000 9/3       | 3 – 7                                       | 9.0                                       | 3.0                                         | 0.75                                         |
| GTI-3000 18/6      | 7 – 16                                      | 18.0                                      | 6.0                                         | 0.75                                         |
| GTI-3000 39/13     | 16 – 31                                     | 39.0                                      | 12.7                                        | 1.15                                         |

\*Not available in Green/Yellow



# GTI 3000

## Heat Shrink Thin Wall Tubing Data Sheet

### Typical Properties

| Physical            | Value                     | Standard | Test Method    |
|---------------------|---------------------------|----------|----------------|
| Shrink ratio        | 3:1                       |          |                |
| Tensile strength    | 18 N/mm <sup>2</sup> min. | -        | IEC 60684-2-19 |
| Elongation at break | 400 % min.                | -        | IEC 60684-2-19 |
| Longitudinal change | +0/ -5 %                  | -        | IEC 60684-2-9  |
| Concentricity       | 70 % min.                 | -        | IEC 60684-2-3  |
| Secant Modulus      | 75 N/mm <sup>2</sup>      | -        | IEC 60684-2-37 |
| Relative Density    | 0.93 g/cm <sup>3</sup>    | -        | IEC 60684-2-4  |

| Thermal                          | Value                     | Standard | Test Method    |
|----------------------------------|---------------------------|----------|----------------|
| Continuous Operating Temperature | -55°C to +135°C           | -        | IEC 60684-2-37 |
| Shrink Temperature               | 120°C min. 350 °C max.    |          |                |
| Heat Shock                       |                           | -        | IEC 60684-2-6  |
| Tensile strength                 | 18 N/mm <sup>2</sup> min. | -        | IEC 60684-2-19 |
| Elongation at break              | 400 % min.                | -        | IEC 60684-2-19 |
| Heat Aging                       |                           | -        | IEC 60684-2-39 |
| Elongation at break              | 350 % min.                | -        | IEC 60684-2-19 |
| Low Temperature Flexibility      | No cracking after bending | -        | IEC 60684-2-14 |
| Copper Corrosion                 | No corrosion              | -        | IEC 60684-2-33 |
| Flammability (1000 °C)           | Not self extinguishing    | -        | IEC 60684-2-26 |
| Flame resistance (200 °C)        | Good                      | -        | IEC 60684-2-6  |

| Electrical          | Value                     | Standard | Test Method    |
|---------------------|---------------------------|----------|----------------|
| Dielectric Strength | 350 kV/cm                 | -        | IEC 60684-2-21 |
| Volume resistivity  | 1*10 <sup>15</sup> Ohm/cm | -        | IEC 60684-2-23 |

| Chemical            | Value | Standard | Test Method    |
|---------------------|-------|----------|----------------|
| Chemical Resistance | Good  | -        | IEC 60684-2-36 |

| Environmental  | Value | Standard    | Test Method |
|----------------|-------|-------------|-------------|
| RoHS compliant | Yes   | 2002/95/EEC | N/a         |
| Halogen free   | Yes   | BS 6853     | N/a         |

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