

## Features/Applications

IGTE1 is a flexible, flame retardant, irradiated polyolefin heat shrink tubing with adhesive. IGTE1 offers both insulation and sealing for protection and meets the most stringent industrial and military requirements. IGTE1 is particularly suited to protect automotive cables, wire bundles and metal tubes against water and moisture where flame retardant properties are required.



## Various

Standard colours: Black, Clear.  
Special sizes and colours available on request.

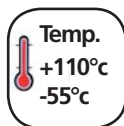
## Specifications

UL 224, File n°E328937: VW-1, 600V, 125°C, outside layer only, except clear products.  
MIL-I-23053/4 Class 3

## Dimensions



| Reference       |         | As supplied (mm)          |  | After recovery (mm)       |                                | Standard packaging (m) |        |
|-----------------|---------|---------------------------|--|---------------------------|--------------------------------|------------------------|--------|
|                 |         | Inside Diameter Mini. (D) |  | Inside Diameter Maxi. (d) | Total Wall Thickness Mini. (t) | Spool                  | Length |
| IGTE10300 LA00  | 3/1     | 3                         |  | 1.0                       | 1.00                           | 150                    | 1.2    |
| IGTE1 0450 LA00 | 4.5/1.5 | 4.5                       |  | 1.5                       | 1.10                           | 75                     | 1.2    |
| IGTE1 0600 LA00 | 6/2     | 6                         |  | 2.0                       | 1.20                           | 75                     | 1.2    |
| IGTE1 0900 LA00 | 9/3     | 9                         |  | 3.0                       | 1.30                           | 50                     | 1.2    |
| IGTE1 1200 LA00 | 12/4    | 12                        |  | 4.0                       | 1.35                           | 25                     | 1.2    |
| IGTE1 1900 LA00 | 18/6    | 19                        |  | 6.0                       | 2.00                           | 25                     | 1.2    |
| IGTE1 2400 LA00 | 24/8    | 24                        |  | 8.0                       | 2.20                           | 25                     | 1.2    |
| IGTE1 3800 LA00 | 38/13   | 38                        |  | 13.0                      | 2.30                           | 25                     | 1.2    |



## Property

|                   |                                          | Values                                     | Test Methods            |
|-------------------|------------------------------------------|--------------------------------------------|-------------------------|
| <b>Physical</b>   | Working temperature                      | -55°C to +110°C                            | -                       |
|                   | Longitudinal change                      | ±10 %                                      | -                       |
|                   | Density                                  | ≤ 1,40g/cm <sup>3</sup>                    | ASTM D 792              |
|                   | Tensile strength                         | ≥ 1,1 kgf/mm <sup>2</sup>                  | ASTM D 638              |
|                   | Elongation                               | ≥ 200%                                     | MIL-I-23053             |
|                   | Tensile strength                         | ≥ 0,8 kgf/mm <sup>2</sup>                  | ASTM D 638              |
|                   | Elongation                               | ≥ 100%                                     | MIL-I-23053             |
|                   | Heat shock (4h @ 250°C)                  | Pass                                       | MIL-I-23053             |
|                   | Low temperature flexibility (4h @ -55°C) | No crack                                   | MIL-I-23053             |
|                   | Secant modulus                           | ≤ 173 MPa                                  | ASTM D 882              |
| <b>Electrical</b> | Dielectric strength                      | ≥ 19,7 kV/mm                               | ASTM D 2671             |
|                   | Volume resistivity                       | ≥ 1x10 <sup>14</sup> Ω-cm                  | ASTM D 876              |
| <b>Chemical</b>   | Fluid resistance (24h @ 24°C)            | Tensile strength ≥ 0,7 kgf/mm <sup>2</sup> | MIL-I-23053             |
|                   |                                          | Dielectric strength ≥ 15,8 kV/mm           |                         |
|                   | Corrosion (16h @ 175°C)                  | Copper                                     | MIL-I-23053             |
|                   |                                          | Copper mirror                              |                         |
|                   | Flammability                             | Pass                                       | ASTM D 2671 Procedure B |
|                   | Fungus resistance                        | No growth                                  | ASTM G 21               |

Recommended storage conditions: Keep in cool, dry, ventilated storage (maximum temperature of 35°C) and in closed containers.

