

Polyolefin Heat-Shrink Tubing

## FITCOTUBE<sup>®</sup> FT100

High-quality, flexible, flame resistant heat-shrink tubing universally applicable. Use as insulation, mechanical relief of wires and cables, protection against environmental influences and labelling via different colors.

- Operating temperature:** -55°C to + 135°C, short time +250°C
- Shrink temperature:** +90° C
- Shrink ratio:** 2 : 1
- Standard colors:** Black, White, Red, Yellow, Blue  
Other colors on request
- Approvals:** UL 224 125°C 600V VW-1 (File No. E191514)



| Description | Inner diameter (mm) |                        | Wall thickness (mm)    |
|-------------|---------------------|------------------------|------------------------|
|             | as supplied (min.)  | after shrinkage (max.) | after shrinkage (nom.) |
| FT100-120   | 1.20                | 0.60                   | 0,34 – 0,48            |
| FT100-160   | 1.60                | 0.80                   | 0,36 – 0,50            |
| FT100-240   | 2.40                | 1.20                   | 0,44 – 0,58            |
| FT100-320   | 3.20                | 1.60                   | 0,44 – 0,58            |
| FT100-480   | 4.80                | 2.40                   | 0,44 – 0,58            |
| FT100-640   | 6.40                | 3.20                   | 0,57 – 0,71            |
| FT100-950   | 9.50                | 4.75                   | 0,57 – 0,71            |
| FT100-1270  | 12.70               | 6.40                   | 0,57 – 0,71            |
| FT100-1910  | 19.10               | 9.50                   | 0,69 – 0,83            |
| FT100-2540  | 25.40               | 12.70                  | 0,77 – 1,01            |
| FT100-3810  | 38.10               | 19.10                  | 0,87 – 1,17            |
| FT100-5100  | 50.80               | 25.40                  | 0,97 – 1,31            |
| FT100-7600  | 76.20               | 38.10                  | 1,07 – 1,47            |
| FT100-10200 | 101.60              | 50.80                  | 1,18 – 1,62            |

**Packaging:** On spools. Special sizes cut lengths or printed tubing on request.

Polyolefin Heat-Shrink Tubing

# FITCOTUBE<sup>®</sup> F100

| Properties   | Test Method | Requirements                       | Typical Value               |
|--|-------------|------------------------------------|-----------------------------|
| <b>Mechanical</b>                                  |             |                                    |                             |
| Tensile strength                                   | ASTM D 638  | Min. 14.0 MPa                      | ≥ 14 MPa                    |
| Ultimate elongation                                | ASTM D 638  | Min. 200 %                         | ≥ 400 %                     |
| Longitudinal change                                | SAE-AS23053 | Max. ± 5%                          | 0 to -2 %                   |
| Secant modulus                                     | ASTM D 882  | Max. 173 MPa                       | 65 MPa                      |
| Specific density                                   | ASTM D 792  | Max. 1.35                          | 1.34                        |
| <b>Thermal</b>                                     |             |                                    |                             |
| Low temperature flexibility<br>(4h x -55°C)        | SAE-AS23053 | No cracking                        | Pass                        |
| Heat shock<br>(4h x 250°C)                         | SAE-AS23053 | No cracking, flowing or dripping   | Pass                        |
| Elongation after long term aging<br>(168h x 175°C) | SAE-AS23053 | No cracking                        | Pass                        |
| Flammability                                       | UL 224      | VW-1                               | Pass                        |
| <b>Electrical</b>                                  |             |                                    |                             |
| Dielectric strength                                | ASTM D 876  | Min. 19.7 kV/mm                    | ≥ 30 kV/mm                  |
| Volume resistance                                  | ASTM D 876  | Min. 10 <sup>14</sup> Ωxcm         | 3.1 x 10 <sup>14</sup> Ωxcm |
| Nominal voltage                                    | UL 224      | -                                  | 600 V                       |
| Breakdown test                                     | UL 224      | No breakthrough                    | Pass                        |
| <b>Chemical</b>                                    |             |                                    |                             |
| Water absorption                                   | ASTM D 570  | Max. 0.5 %                         | 0.25 %                      |
| Fungus resistance                                  | SAE-AS23053 | ASTM G21                           | Pass                        |
| Ozone resistance                                   | NF F 00-608 | No cracking or perspiring          | Pass                        |
| Colour stability<br>(24h x 175°C)                  | SAE-AS23053 | No change                          | Pass                        |
| Copper corrosion<br>(16h x 175°C)                  | SAE-AS23053 | No corrosion                       | Pass                        |
| Fluid resistance<br>(24h x 23°C)                   | SAE-AS23053 | Min. 6.9 MPa<br>(Tensile strength) | 7.25 – 14 MPa               |