

Polyolefin Heat-Shrink Tubing

# FITCOTUBE<sup>®</sup> FT900

Semi-rigid, radiation-crosslinked polyolefin shrink tubing with heat-melting inner layer. Is used for sealing and encapsulation as well as mechanical protection against permanent wire and cable connections.

| Operating temperature: | - 55° C to + 110° C, short time up to +250° C |
|------------------------|---|
| Shrinking temperature: | + 150° C                                      |
| Shrink ratio:          | from 3:1 to 5:1                               |
| Standard color:        | black   |
|                        |   |



| Description* | Inner diameter (mm)    |                           | Wall thickness (mm)       |
|--------------|------------------------|---------------------------|---------------------------|
|              | Ass supplied<br>(min.) | After shrinking<br>(max.) | After shrinking<br>(nom.) |
| FT900-320    | 3,20                   | 0,60                      | 0,97                      |
| FT900-480    | 4,80                   | 1,50                      | 1,10                      |
| FT900-640    | 6,40                   | 2,00                      | 1,20                      |
| FT900-950    | 9,50                   | 3,00                      | 1,27                      |
| FT900-1270   | 12,70                  | 4,00                      | 1,40                      |
| FT900-1900   | 19,00                  | 8,00                      | 1,65                      |
| FT900-2540   | 25,40                  | 10,20                     | 1,90                      |

\*Special sizes on request

# Packaging:

On Spools. Cut and printed lengths on request.

**Processing note:** 

Care for clean and accurate cutting edge. Start shrinkage on the end. Pre-heat metal body.

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| Attributes          | Testing           | Requirements  | Value   |
|---------------------|-------------------|---------------|---------|
| Mechanical          |                   |               |         |
| Tensile Strength    | ASTM D 638        | Min. 10,4 MPa | 18 MPa  |
| Elongation at Break | ASTM D 638        | Min. 200%     | 390%    |
| Longitudinal Change | SAE-AMS-DTL-23053 | -10% bis +1%  | -7%     |
| Secant Modulus      | ASTM D 882        | Min. 173 MPa  | 253 MPa |

#### Thermal

| Cold Impact<br>(-55°C x 4h)       | ASTM D 746        | no cracking                   | pass |
|-----------------------------------|-------------------|-------------------------------|------|
| Heat Resistance<br>(175°C x 168h) | SAE-AMS-DTL-23053 | no cracking                   | pass |
| Heat Shock<br>(250°C x 4h)        | SAE-AMS-DTL-23053 | no crack, flowing or dripping | pass |

# Electrical

| Dielectric strength | ASTM D 876 | Min. 19,7kV/mm             | ≥ 36 kV/mm                  |
|---------------------|------------|----------------------------|-----------------------------|
| Volume resistivity  | ASTM D 876 | Min. $10^{15} \Omega^*$ cm | 4,6 x 10 <sup>16</sup> Ω*cm |

## Chemical

| Water absorption                      | ASTM D 570        | Max. 0,5% | 0,1% |
|---------------------------------------|-------------------|-----------|------|
| Copper compatibility<br>(121°C x 16h) | SAE-AMS-DTL-23053 | -         | pass |

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