

# THERMOTEX

## DESCRIPTION

HERMOTEX is a semi-flexible, moisture-proof, heat shrinking tubing with a meltable adhesive inner lining. Designed to provide moisture-proof sealing.



## PROPERTIES

- 3:1 shrink ratios.
- The high shrink ratios mean that only a few sizes are required to cover a wide range of substrate diameters.
- High strength bonding.
- Provides excellent environmental sealing.
- High-quality flexible shrink insulation from polyolefin that is highly adhesive on the inside.
- Withstands most chemicals and UV radiation.
- Has a very durable surface and is, therefore, suitable as protection against wear.

## FIELD OF APPLICATION

- Moisture proof sealing to such as electrical wire splices, cable jackets, wire breakouts, and electrical components.
- Typical applications are environmental sealing of electrical components including wire splices and harness breakouts as well as sealing cable ends against moisture ingress.
- The strong glue makes Thermotex an excellent aid for strain relief.

## USER INSTRUCTIONS

Apply on dry and clean substrates (using Soft Clean), free of loose particles.

**THERMOTEX - TEX**

**Art.no. 10101-10107**

Signature: HP

Date: 2012-11-23

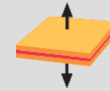
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# THERMOTEX

## TECHNICAL DETAILS

|  |   |
|--|---|
| <b>Colour:</b>                                     | Black   |
| <b>Packaging:</b>                                  | 1,22-meter tube.  |
| <b>Tensile strength:</b>                           | 11 N/mm <sup>2</sup> .  |
| <b>Ultimate elongation:</b>                        | 300%  |
| <b>Inner wall adhesion:</b>                        | 60 N/25mm (aluminum).   |
| <b>Shelf life (temp.) months (+5°C to +25 °C):</b> | >12 months.   |
| <b>Temperature resistance:</b>                     | -55°C to +110°C   |
| <b>Minimum shrink temperature:</b>                 | +80°C   |
| <b>Minimum full recovery temp.:</b>                | >+110°C   |
| <b>Heat Shock:</b>                                 | 4 h (+250°C)  |
| <b>Heat ageing:</b>                                | 168 h (+175°C)  |
| <b>Low temperature flexibility:</b>                | 4 h (-55°C)   |
| <b>Dielectric strength:</b>                        | 12 MV/m (IEC 243)   |
| <b>Approvals:</b>                                  | MIL-DTL-23053/4 class 3.<br>UL E85381   |
| <b>Others:</b>                                     | In compliance with the legal regulations,<br>please see current Material Safety Data Sheet. |
| <b>Chemical resistance/Fluid resistance:</b>       |   |
| Test pass mean it should reach following           | Diesel fuel (BS 2869 class A1)  |
| Tensile strength 7 N/mm <sup>2</sup>               | Hydraulic fluid (H-515)   |
| Ultimate elongation 300%                           | Lubricating oil (O-149)   |
| Inner wall adhesion 60 N/25 mm.                    |   |

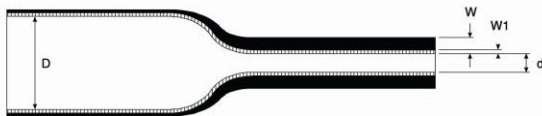
### SYMBOLS



Tensile strength:  
11 N/mm<sup>2</sup>



Does not contain lead,  
cadmium, chrome or other  
toxic substances. RoHS  
(2002/95/EC).



| Art. no: | Inside diameter                    |                                       | Wall thickness**                                     |   |
|----------|------------------------------------|---------------------------------------|--|---|
|          | D (min)<br>Expanded as<br>supplied | d (max)<br>Recovered<br>after heating | W (nom)<br>Total Wall<br>recovered after<br>heating. | W1 (nom)<br>Adhesive wall<br>recovered<br>after heating |
| 10101    | 3                                  | 1                                     | 1.00 (+/-0.28)                                       | 0.5   |
| 10101-2  | 4.5                                | 1.5                                   | 1.10 (+/-0.25)                                       | 0.5   |
| 10102    | 6                                  | 2                                     | 1.00 (+/-0.28)                                       | 0.5   |
| 10103    | 9                                  | 3                                     | 1.40 (+/-0.28)                                       | 0.6   |
| 10104    | 12                                 | 4                                     | 1.78 (+/-0.38)                                       | 0.7   |
| 10105    | 19                                 | 6                                     | 2.25 (+/-0.55)                                       | 0.8   |
| 10106    | 24                                 | 8                                     | 2.54 (+/-0.55)                                       | 1.0   |
| 10107    | 40                                 | 13                                    | 2.54 (+/-0.55)                                       | 1.0   |

\*\* Wall thickness will be less if tubing recovery is restricted during shrinkage.

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