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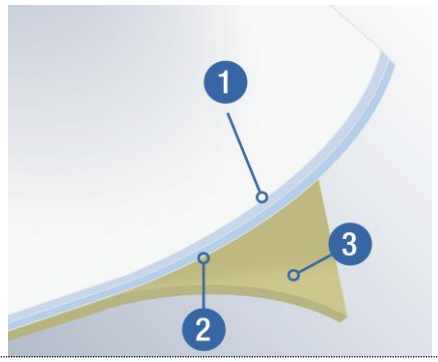
FILMS FOR ELECTRONICS

# ELECROM STRETCH WHITE ENCAPSULATE D

*Technical data sheet*

| DESCRIPTION | APPLICATION | FEATURES |
|---|---|---|
| White polyurethane film, on a silicon paper carrier: the upper side is heat sealable, the bottom side is temperature resistant and printable | Elastic thermal adhesive material for encapsulation of conductive tracks printed on ELECROM STRETCH TS D or can be printable with conductive inks as an intermediate layer | • Perfect for multilayer systems: the heat sealable upper side guarantees a strong bond with ELECROM STRETCH TS D<br>• Highly Matt surface of lower side is designed to provide a soft hand feel and to facilitate the printing process by preventing the film from sticking to the mesh<br>• High-stretch film<br>• Wash resistant<br>• Suitable for plotter, laser or die cutting |
|  | 1. *Heat sealable side*<br>2. *Temperature resistant and printable side*<br>3. *Silicon paper* | |

## INSTRUCTIONS OF USE

STEP 1: Cut the shape as required
STEP 2: Laminate the side not protected with paper in contact with ELECROM STRETCH TS D. The heat sealable layer activates at 130-150°C and ensures a perfect bond with the ELECROM STRETCH TS D. Dwell time 5 s, pressure 4-6 bar.
*Can be further printed as an intermediate layer*
STEP 3: Transfer the encapsulated circuit on the fabric with the conditions of step 2 and remove the paper liner.

Shelf life: 6 months

## PHYSICAL AND MECHANICAL PROPERTIES

| Property | | Test method | Unit | Nominal values |
|---|---|---|---|---|
| *Nominal thickness* | | Internal Method | micron | 155±15 |
| *Colour* | | - | - | White |
| *Melting temperature* | | DSC | °C | 120-130 |
| *Tensile strength* | *Machine direction* | ISO 527-3/2/200 | MPa | >21 |
| | *Cross direction* | | | >22 |
| *Elongation at break* | *Machine direction* | ISO 527-3/2/200 | % | >385 |
| | *Cross direction* | | | >425 |
| *Modulus 100%* | *Machine direction* | ISO 527-3/2/200 | MPa | >7 |
| | *Cross direction* | | | >6.5 |
| *Modulus 300%* | *Machine direction* | ISO 527-3/2/200 | MPa | >8.7 |
| | *Cross direction* | | | >8.4 |

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