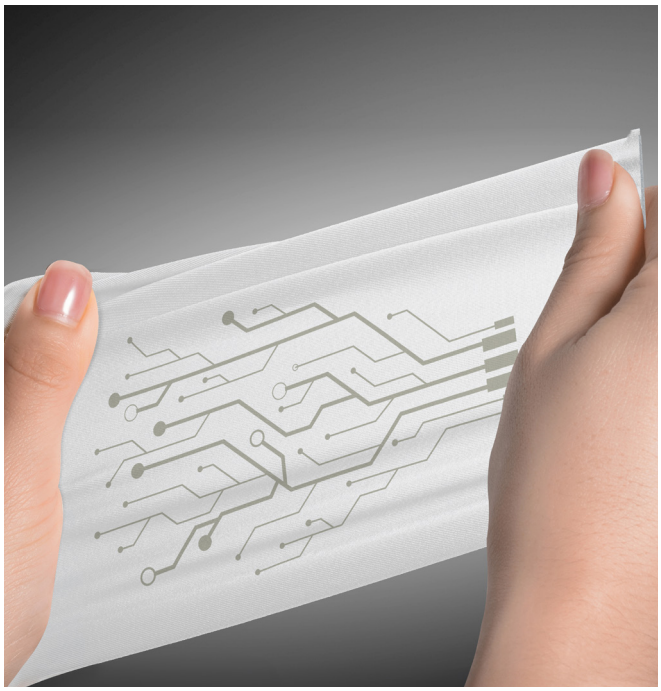
TECH-FILMS
POLICROM

Transfer films for electronics

Flexible and stretchable TPU (Thermo Plastic Urethane) films

Elecrom Stretch TS D is a flexible and stretchable material designed to facilitate the screen printing process, to ensure strong bonding with conductive inks and dielectric varnishes and to provide adhesion to any fabric.

Elecrom Stretch Encapsulate D is designed to be laminated over Elecrom Stretch TS D to electrically insulate and protect the printed circuit; an additional circuit can also be printed on its exposed surface to create multilayer circuit structures.



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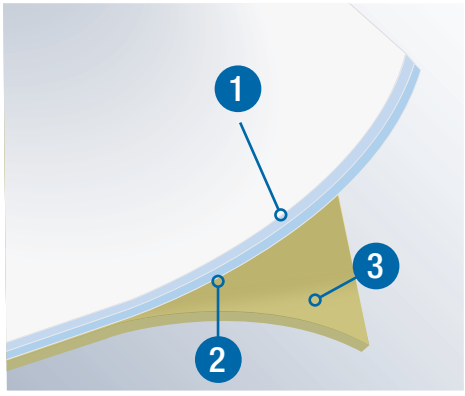
ELECROM STRETCH TS D: elastic polyurethane (TPU) films for printing electronic circuits

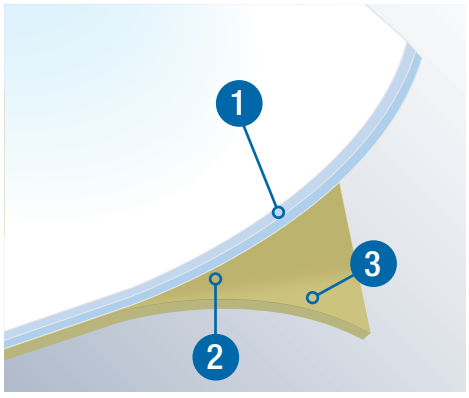


TRANSFER TEMPERATURE 150°C | DWELL TIME 15s

ELECROM STRETCH TS D is a **high-stretch film** for applications such as: pressure sensors, medical devices, wearables, sensors for automotive and other industrial applications. It is available in white and transparent versions and features unique properties thanks to its exclusive structure:

1. **THE UPPER (PRINTABLE) SIDE** is designed to facilitate the printing process: the matte surface prevents the film from sticking to the mesh; it is heat resistant well over 150°C, ensures high stretching properties and a good consistency of the conductive track. It ensures a strong bond to most types of conductive inks and dielectric pastes
2. **THE LOWER (HEAT SEALABLE) SIDE** activates at 150°C to bond with any type of textile
3. **THE PROTECTION LINER** is made with heat-stabilized PET to provide a flat surface during printing and to prevent thermal shrinkage

ELECROM STRETCH ENCAPSULATE D: elastic polyurethane film for electronic circuit encapsulation



TRANSFER TEMPERATURE 150°C | DWELL TIME 15s

ELECROM STRETCH ENCAPSULATE D is a **high-stretch** film, available in both white and transparent versions. It can be used either for the encapsulation of circuits printed on Elecrom Stretch TS D or as an additional layer printed with conductive inks

1. **THE UPPER (HEAT SEALABLE) SIDE** is designed to match the characteristics of Elecrom Stretch TS D and perfectly laminate to it
2. **THE LOWER (MATTE HEAT RESISTANT) SIDE**
   - when used for encapsulation, its matte surface provides a soft hand feel to the finished circuit;
   - when used for the printing of an additional circuit, it facilitates the printing process: the matte surface prevents the film from sticking to the mesh; it is heat resistant well over 150°C, ensures high stretching properties and a good consistency of the conductive track
3. **THE PROTECTION LINER** is made of silicone paper that facilites handling throughout the process and is removed after the transfer onto the textile

PRODUCT NAME	FINISH & FEATURES	NOMINAL THICKNESS (µm)	ROLLS STANDARD SIZES	SHEETS STANDARD SIZES
ELECROM STRETCH CLEAR TS D	transparent matte	150	750 mm x 40 m	A4 - A3 500 x 750 mm
ELECROM STRETCH WHITE TS D	white matte	150		
ELECROM STRETCH WHITE ENCAPSULATE D	white matte	150	500 mm x 40 m 1500 mm x 40 m	A4 - A3 500 x 700 mm
ELECROM STRETCH CLEAR ENCAPSULATE D	transparent matte	150		

Other sizes are available on request, subject to feasibility and pricing.