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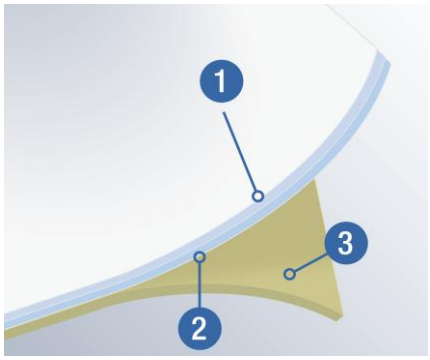
elecrom
FILMS FOR ELECTRONICS

ELECROM STRETCH WHITE TS D

Technical data sheet

DESCRIPTION	APPLICATION	FEATURES
White polyurethane film, on a heat stabilized PET carrier: the upper side is printable, the lower side is heat sealable	Elastic thermal adhesive material printable with conductive inks to produce smart textiles	• High mechanical resistance optimized to print a wide range of conductive and dielectric inks • Matt surface of upper side is designed to provide a soft hand feel and to facilitate the printing process by preventing the film from sticking to the mesh • The lower side ensures perfect bonding to textile • Laminated to a PET heat stabilized carrier to provide flat surface during printing and minimize thermal shrinkage • Wash resistant • Suitable for plotter, laser or die cutting *Successfully tested by:* • *Saralon with Saral Stretch Silver 800 ink* • *Nagase with Conductive Silver ink CI-1036 and Conductive Carbon ink CI-2051*
	1. *Printable matte side made of ester based TPU* 2. *Heat-sealable side made of ether based TPU* 3. *Heat stabilized PET carrier*	

INSTRUCTIONS OF USE

STEP 1: Print the conductive track on the top layer. The curing temperature must not exceed 140 °C / 20 min
STEP 2: Print the dielectric layer
STEP 3: Remove the liner and transfer the film on fabric or other substract. The bottom layer, heat sealable, activates at 130-150 °C and ensures a perfect bond with the textile. Dwell time 25 s, pressure 2.8-4.2 bar (40-60 psi)

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
Modulus 100%	***Machine direction***	ISO 527-3/2/200	MPa	>10
	Cross direction			>9
Shrinkage at 140 °C/20 min	***Machine Direction***	Internal Method	%	< 0.3
	Cross Direction			< 0.2

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