

Supplementary

PVDF-TrFE Based Stretchable Contact and Non-Contact Temperature Sensor for E-Skin Application

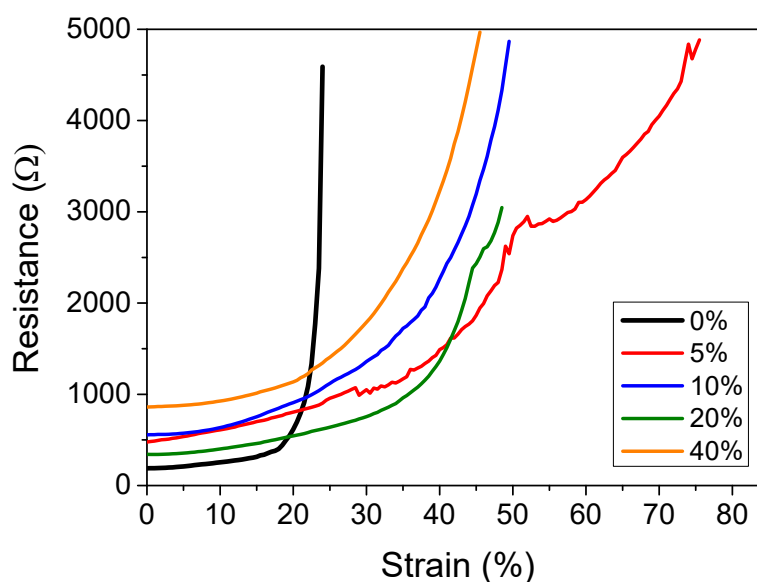


Figure S1. Optimisation of the formulation for the PEDOT:PSS layer, spin-coated on a PDMS substrate. Resistance as a function of the strain for different vol% of Capstone®. The sample is 3.81 mm by 2.54 mm and spin-coated at 1500 rpm for 30 seconds. Reproduced from [31].

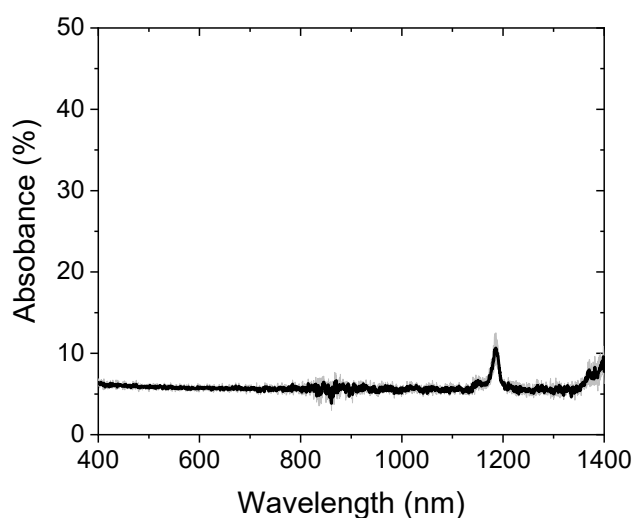


Figure S2. Average absorbance spectrum for PDMS versus the wavelength measured with a UV 2600 spectrophotometer (Shimadzu, Japan) equipped with the ISR-2600Plus integrating sphere (Shimadzu, Japan). The data are extracted from 3 samples. The grey surface shows the standard deviation. This

material has a low absorbance peak at 1200 nm. However it absorbs less than 10% of the emitted light from 400 to 1150 nm, and is therefore an appropriate choice as a substrate.

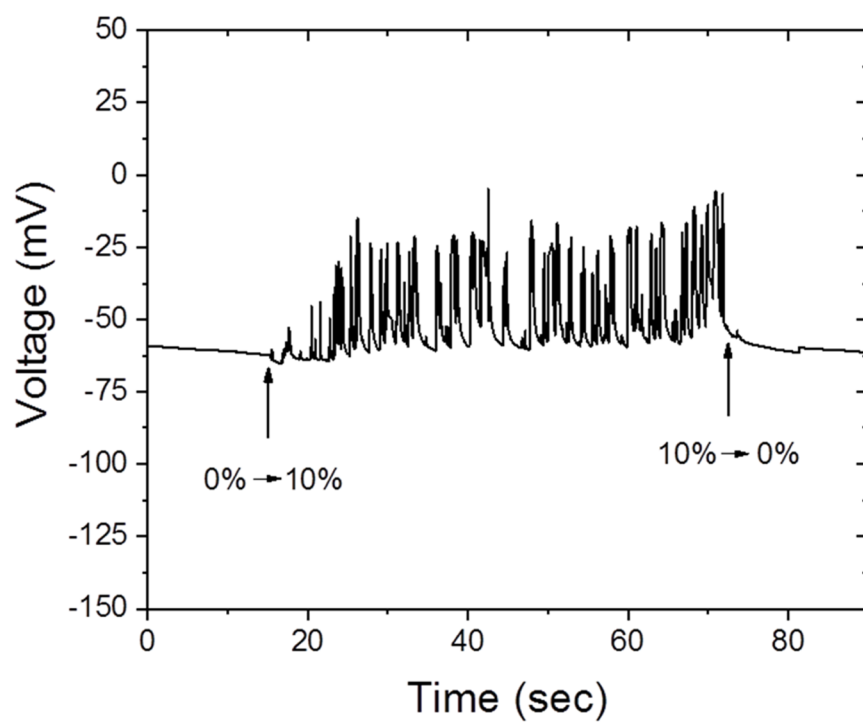


Figure S3. Voltage sensed through the device before and after 10% strain.