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READ ME File For 'Dataset for: Modelling Reliable Electrical Conductors for E-Textile Circuits on Polyimide Filaments '

Dataset DOI: 10.5258/SOTON/D1172

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This dataset supports the publication:

Komolafe, A., Torah, R., Tudor, M., & Beeby, S. (2020). Modelling reliable electrical conductors for e-textile circuits on polyamide filaments. In E-Textiles 2019: International Conference on the Challenges, Opportunities, Innovations and Applications in Electronic Textiles. Multidisciplinary Digital Publishing Institute (MDPI).

This dataset contains:

The excel file contains experimental data for the paper. In particular:

Figure 1b: Stress distribution within an unencapsulated filament.

Figure 2: Effect of the thickness and elastic modulus, E , of an encapsulation material on the position of the copper conductor relative to the neutral axis position.

Figure 3: Stress distribution within the electronic filament when the neutral axis (NA) is at the center of the copper film.

Figure 4: Stress distribution within the electronic filament when the NA is at the center of a $1\ \mu\text{m}$ thick copper film.

Date of data collection: from August 2019

Information about geographic location of data collection:

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Related projects:

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