

ANALYSIS OF THE ELECTROSPINNING PROCESS

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Abstract

Electrospinning is a process by which nanofibrous structures are formed thanks to self-organization of the matter. Formations known as Taylor cones are formed at the free surface of the polymer solution after a strong electrical field is applied. These Taylor cones subsequently become jets. The electrospinning process is among other things characterized by the current waveform through such jets. In this study, we describe how this process can be analyzed. Our newly developed measuring device was used to analyze the current waveform of the process.

Keywords: Electrospinning, current waveform, measuring device

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