



# **Biaxial Stretching of Film: Principles and Applications (Woodhead Publishing in Materials)**

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Biaxial (having two axes) stretching of film is used for a range of applications and is the primary manufacturing process by which products are produced for the food packaging industry. Biaxial stretching of film: principles and applications provides an overview of the manufacturing processes and range of applications for biaxially stretched films.

Part one reviews the fundamental principles of biaxial stretching. After an introductory chapter which defines terms, chapters discuss equipment design and requirements, laboratory evaluations, biaxial film structures and typical industrial processes for the biaxial orientation of films. Additional topics include post production processing of biaxially stretched films, the stress-strain behaviour of poly(ethylene terephthalate) and academic investigations of biaxially stretched films. Part two investigates the applications of biaxial films including fresh cut produce, snack packaging and product labelling. A final chapter investigates potential future trends for biaxially oriented films and orienting lines.

Biaxial stretching of film: principles and applications is a valuable reference tool for a broad spectrum of readers, ranging from polymer and fibre engineers to electrical engineers. It will also be suitable for professionals in the food packaging and paper industries.

- A valuable reference tool for polymer and fibre engineers, electrical engineers and professionals in the food packaging and paper industries
- Provides a comprehensive overview of the manufacturing processes of biaxially stretched films and includes a discussion of their future applications
- Places emphasis on the technology as well as the different types of polymers used

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