



# Fundamentals of Plastics Thermoforming (Synthesis Lectures on Materials Engineering)

*Peter Klein*

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The process of heating and reshaping plastics sheet and film materials has been in use since the beginning of the plastics industry. This process is known as thermoforming. Today this process is used for industrial products including signage, housings, and hot tubs. It also produces much of the packaging in use today including blister packs, egg cartons, and food storage containers. This process has many advantages over other methods of producing these products, but it has some limitations. This book has a twofold purpose. It is designed to be used as a text book for a course on thermoforming. It is also intended to be an application guide for professionals in the field of thermoforming including manufacturing, process and quality engineers, and managers. This book is focused on process application rather than theory. It refers to real products and processes with the intent of understanding the real issues faced in this industry. In addition to materials and processes, part and tool design are covered. Quality control is critical to any operation and this is also covered in this text. Two areas of focus in today's industry include Lean operations and environmental issues. Both of these topics are also included. Table of Contents: Introduction / Plastics Materials / Thermoforming Process Overview / The Forming Process / Part Design Mold / Tool Design / Quality Control Issues / Lean Operations / Environmental Issues

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