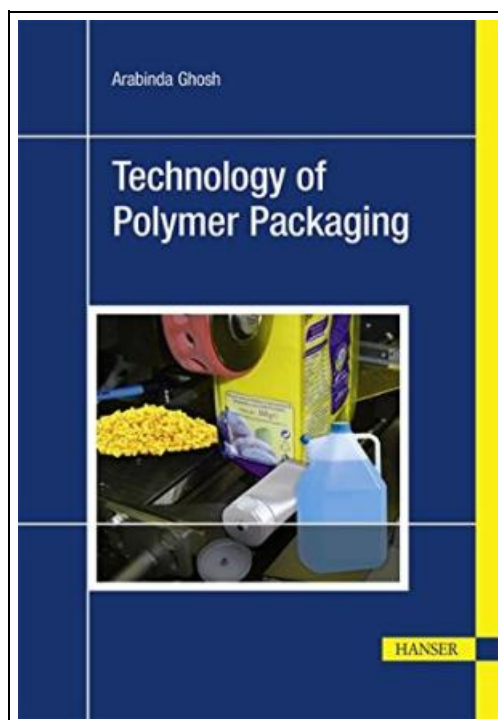


Technology of Polymer Packaging



Filesize: 6.34 MB

Reviews

Very good e-book and valuable one. It really is packed with knowledge and wisdom I am just very easily could possibly get a satisfaction of reading a created pdf.

(Walton Haag)

TECHNOLOGY OF POLYMER PACKAGING



Condition: New. Publisher/Verlag: Hanser Fachbuchverlag | Aimed at engineering students, engineers, and technologists of the packaging industry, this book provides the essentials of polymer packaging. It provides the reader with the knowledge and skills to identify and solve problems in packaging processes, and thereby develop functional packaging. Sales and marketing people involved in the packaging industry will also find this a valuable resource. A short primer on polymeric materials and additives is followed by descriptions of the most important production processes for polymer packaging - both continuous and discontinuous. Further chapters cover technology of sealing and different converting processes of packaging webs. The clear, practical informational focus stems from the author's extensive experience in the packaging industries and as an educator.

Key Topics:- Basics of packaging polymers- Technology of extrusion- Blown film- Chill roll film- Calender sheets- Collapsible tubes- Special films- Injection molding- Injection blow molding- Extrusion blow molding- Stretch blow molding- Thermoforming- Technology of sealing- Technology of converting- Special topics- Instructions for the technologist |

1 Definition of Polymers
2 Manufacturing of Polymer Resins
3 Classification of Polymers (Plastics)
4 Plastics Additives
5 Required Performances of a Plastic Packaging
6 Polymers for Packaging
7 Legislative aspects for Polymers
8 Extruder - Polymer melting machine
8.1 Technology of Extrusion and Co-extrusion
8.2 Conti-Process
8.2.1 Manufacturing of blown film (flexible films)
8.2.2 Manufacturing of cast films
8.2.2.1 Chillroll-films (flexible films)
8.2.2.2 Calendering of sheets (rigid sheets)
8.2.2.3 Water bath Sheets
8.2.2.4 PVC-Sheets
8.2.3 Tubes as Packaging material
8.2.4 Special films
8.2.4.1 Monolayer Films
8.2.4.2 Multilayer films
8.2.4.3 Oriented films
8.2.4.4 Biaxial oriented films (sequentially and simultaneously)
8.2.4.5 Double-Bubble Process
8.2.4.6 Tripple-Bubble Process
8.2.4.7 Shrink films
8.2.4.8 Stretch films
8.2.4.9 Extended films
8.3 Disconti-Process
8.3.1 Injection-Moulding
8.3.2 Injection-Blow-Moulding
8.3.3 Extrusion- and Coextrusion-Blow-Moulding
8.3.4 Stretch Blow-Moulding
8.3.5 Thermoforming
8.3.5.1 Processing of Polymer Sheets
8.3.5.2 Thermoforming Machines
9 Technology of Sealing
9.1 Direct Heating
9.1.1 Heated Jaw Sealing
9.1.2 Electrical Impuls Sealing
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9.2.3 Induction-Sealing
Part 3: Converting of Polymer Packaging (Composite Packaging)
10 Technology of coating
10.1 Extrusion Coating
10.2 Coextrusion...



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