Plastic Films in Food Packaging. Plastics Design Library

Description: The value of the groceries purchases in the USA is over $500 billion annually, most of which is accounted for by packaged foods. Plastic packaging of foods is not only ubiquitous in developed economies, but increasingly commonplace in the developing world, where plastic packaging is instrumental in decreasing the proportion of the food supply lost to spoilage.

This new handbook is a combination of new material and updated chapters, chosen by Dr. Sina Ebnesajjad, from recently published books on this subject. Plastic Films in Food Packaging offers a practical handbook for engineers, scientists and managers working in the food packaging industry, providing a tailor-made package of science and engineering fundamentals, best practice techniques and guidance on new and emerging technologies.

By covering materials, design, packaging processes, machinery and waste management together in one book, the authors enable the reader to take a lifecycle approach to food packaging.

The Handbook addresses questions related to film grades, types of packages for different types of foods, packaging technologies, machinery and waste management. Additionally the book provides a review of new and emerging technologies. Two chapters cover the development of barrier films for food packaging and the regulatory and safety aspects of food packaging.

- Essential information and practical guidance for engineers and scientists working at all stages of the food packaging lifecycle: from design through manufacture to recycling.

- Includes key published material on plastic films in food packaging, updated specifically for this Handbook, and new material on the regulatory framework and safety aspects.

- Coverage of materials and applications together in one handbook enables engineers and scientists to make informed design and manufacturing decisions.

Contents:
1 Introduction to Use of Plastics in Food Packaging
2 Polypropylene Films
3 PE based multilayer film structures
4 Multilayer oriented films
5 Development of Barrier Film for Food Packaging
6 Applications of Polypropylene Films
7 New technologies in food packaging: Overview
8 Introduction to active food packaging technologies
9 Introduction to modified atmosphere packaging
10 Modified atmosphere packaging of ready-to-eat foods
11 Preservative packaging for fresh meats, poultry, and fin fish
12 Oxygen-scavenging packaging
13 Antimicrobial packaging systems
14 Damage Reduction to Food Products during Transportation and Handling
15 Food Packaging Machinery
16 Compostable Polymer Properties and Packaging Applications
17 Waste Management in Food Packaging Industries
18 A Survey of Regulatory Aspects of Food Packaging

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