

- In Europe, nearly 40% of all plastics is used in the packaging sector, and packaging is the largest sector of plastics usage (Association of Plastics Manufacturers in Europe, APME)
- About 50% of Europe's food is packed in plastic packaging (British Plastics Federation, BPF)
- Plastics have properties of strength and toughness
- For example, polyethylene terephthalate (PET) film has a mechanical strength similar to that of iron, but under load the PET film will stretch considerably more than iron before breaking
- Specific plastics can meet the needs of a wide temperature range, from deep frozen food processing ( $-40^{\circ}\text{C}$ ) and storage ( $-20^{\circ}\text{C}$ ) to the high temperatures of retort sterilization ( $121^{\circ}\text{C}$ ), and reheating of packaged food products by microwave ( $100^{\circ}\text{C}$ ) and radiant heat ( $200^{\circ}\text{C}$ )

# Packaging Without Plastics Apme Report

**Ruth Hillary**



## **Packaging Without Plastics Apme Report:**

Life Cycle Assessment and Environmental Impact of Polymeric Products T. J. O'Neill, 2003 This review describes the process of life cycle analysis in some detail It describes the different organisations involved in researching and applying these techniques and the database resources being used to generate comparative reports The overview explains the factors to be considered the terminology the organisations involved in developing these techniques and the legislation which is driving the whole process forward The ISO standards relating to environmental management are also discussed briefly in the document Design for the environment is covered in the report This review is accompanied by summaries of selected papers on life cycle analysis and environmental impact from the Rapra Polymer Library database **Plastics and the Environment I.**

Boustead, 1994 Plastics possess some special characteristics but most of the potential environmental problems and their solutions are common to other materials and industries This review considers their environmental impact in terms of industrial systems e g eco profile and life cycle systems and looks at energy consumption and recovery as well as recycling An additional indexed section containing several hundred abstracts from the Rapra Polymer Library database provides useful references for further reading *Plastics Product Recycling* Sara Hulse, 2000 This report covers the consumption of plastics in Europe how much waste plastic is produced a summary of recent legislation and the various methods of dealing with plastic wastes The plastics recycling industry in Europe is then reviewed with an in depth look at the relevant legislation followed by a summary of the situation in most of the major European countries The major end use sectors for plastics and the problem of waste plastics in each are examined in the final section **RAPRA Review Reports** Rapra Technology Limited, **Packaging for Sustainability** Karli Verghese, Helen Lewis, Leanne Fitzpatrick, 2012-03-17 This concise and readable handbook for practitioners who are trying to implement sustainability strategies for packaging deploys industry case studies throughout to illustrate possible applications and scenarios in a sector under growing regulatory pressure

Sorting of Waste Plastics for Recycling , **Regulation of Food Packaging in Europe and the USA** Derek J Knight, Lesley A Creighton, 2004 Annotation A wide variety of plastics are used in food contact applications and it is important that such plastics do not affect the food with which they come into contact The objective of food packaging legislation is to protect the consumer by controlling the contamination of food by chemicals transferred from the packaging Food packaging regulations are constantly under revision and differ significantly between Europe and the USA This report provides a clearly written summary of the current legislation surrounding the use of plastics in contact with food It discusses the plastics used in food packaging their characteristics and applications This review is accompanied by around 400 abstracts from papers and books in the Rapra Polymer Library database Handbook of Plastics Recycling Francesco Paolo La Mantia, 2002 This book discusses some of the state of the art techniques of recycling post consumer plastic materials and focuses on mechanical recycling chemical recycling and energy recovery The book is intended for all those who are interested in recycling of post

consumer plastic waste Although this book discusses technical aspects of recycling the authors have endeavoured to make this book easily understandable to anyone interested in the subject enabling the reader to gain a thorough grounding in all the subjects discussed Life Cycle Engineering of Plastics L. Lundquist,Y. Leterrier,P. Sunderland,J.A.E.

Månson,2001-01-23 This book adds much to the already evolving field of Design for Environment but it goes far beyond most works on this subject by surrounding the central notions of life cycle assessment with a scientific body of knowledge and with a more practical slant reflecting the reality of the organizations in which product development occurs Through a focus on plastic products the authors show the importance of making ties between basic technical knowledge and the process of life cycle engineering Their approach offers a practical deliberate way to make ecologically and economically sensible decisions about product reuse and recycling and other critical dimensions of product life behavior They demonstrate a positive approach to designing products that fits into a sustainable economy through down to earth cases While the book focuses on the life cycle engineering of plastics it is only a short step to other materials and products Beyond contributing to the technology of life cycle engineering this text adds to the growing body of knowledge that argues for an fundamentally new way of thinking about economic and social activity a new paradigm for sustainable social and industrial problem solving Industrial ecology is such a new system for thinking about and implementing sustainability that draws its core set of ideas from the ecological world Industrial ecology brings to the surface the idea of interdependence among members of a community natural or economic and notes the material cycles that are central to a stable ecosystem The life cycle engineering framework coupled with sound scientific knowledge of materials behavior as articulated in this book makes a giant step towards bringing the model of industrial ecology into everyday practice From the Preface by John R Ehrenfeld Director MIT Technology Business and Environment Program Center for Technology Policy and Industrial Development

The CBI Environmental Management Handbook Ruth Hillary,2016-01-08 A guide to all aspects of environmental management for businesses The volume offers information on state of the art techniques trends and developments taking a user s perspective capturing key viewpoints and drawing together best practice through the use of case studies These display the practical implications of the topics under discussion and are set out to enable users to relate their information to their own experience Journal of international law and practice ,1994 **Polymers** Adisa Azapagic,Alan Emsley,Ian

Hamerton,2007-12-10 Recycling von Kunststoffen Gummi und anderen Polymeren Wie beeinflussen solche Prozesse unsere Umwelt Dieser Frage geht der vorliegende Band nach wobei sich der Autor auf die neue Gesetzgebung in den USA Japan und der EU bezieht die Polymerhersteller zum Recycling zwingt Vor und Nachteile der Recyclingkreisl ufe werden einander gegen bergestellt Alle Kapitel enthalten Beispielfragen und antworten *Plastics and the Environment* Anthony L. Andradý,2003-02-20 Plastics offer a variety of environmental benefits However their production applications and disposal present many environmental concerns *Plastics and the Environment* provides state of the art technical and research

information on the complex relationship between the plastic and polymer industry and the environment focusing on the sustainability environmental impact and cost benefit tradeoffs associated with different technologies Bringing together the field's leading researchers Anthony Andradý's innovative collection not only covers how plastics affect the environment but also how environmental factors affect plastics The relative benefits of recycling resource recovery and energy recovery are also discussed in detail The first of the book's four sections represents a basic introduction to the key subject matter of plastics and the environment the second explores several pertinent applications of plastics with environmental implications packaging paints and coatings textiles and agricultural film use The third section discusses the behavior of plastics in some of the environments in which they are typically used such as the outdoors in biotic environments or in fires The final section consists of chapters on recycling and thermal treatment of plastics waste Chapters include Commodity Polymers Plastics in Transportation Biodegradation of Common Polymers Thermal Treatment of Polymer Waste Incineration of Plastics The contributors also focus on the effectiveness of recent technologies in mitigating environmental impacts particularly those for managing plastics in the solid waste stream Plastic and design engineers polymer chemists material scientists and ecologists will find Plastics and the Environment to be a vital resource to this critical industry      **Polymers for Electronic**

**Components** Keith Cousins, 2001 This market report provides an overview of the European electronic components market the polymers the components and the end use application sectors The report discusses key trends and developments affecting the current and future use of polymers in electronic component applications The author provides an analysis of the electronic components industry including contract manufacture A selection of profiles of the leading suppliers and consumers in this sector is also included      Plastics and Rubber International, 1991      Renewables-Based Technology Jo

Dewulf, Herman Van Langenhove, 2006-06-14 Sustainability is a key driving force for industries in the chemical food packaging agricultural and pharmaceutical sectors and quantitative sustainability indicators are being incorporated into company reports This is driving the uptake of renewable resources and the adoption of renewables Renewables can either be the substituted raw materials that are used in a given industry e.g. the use of biomass for fuel the use and/or modification of a crop for use in a new industry e.g. plant cellulose or the reuse of a waste product e.g. organic waste for energy production This is the first book in the Wiley Renewable Resources series that brings together the range of sustainability assessment methods and their uses Ensuing books in the series will look at individual renewable materials and applications

**Environmentally Conscious Materials and Chemicals Processing** Myer Kutz, 2007-03-16 The third volume of the Wiley series Environmentally Conscious Material and Chemically Processing focuses on environmentally preferable approaches to designing and developing material and chemical processing The book reflects the hierarchy of design from tools for evaluating environmental hazards of industrial materials and chemicals through to the economics of environmental improvement projects Major topics covered include Chemical Manufacturing Materials substitutions Engineering processes

products and systems to reduce environmental impacts approaches for evaluating emissions and hazards of chemicals and processes Environmental regulations Properties and fates of environmental contaminants and others

**The Voluntary Approach to Environmental Policy** Arthur P. J. Mol, Volkmar Lauber, Duncan Liefferink, 2000-10-05 Voluntary agreements and other approaches based on co operation between public authorities and agro industrial polluters are rapidly gaining importance throughout Europe This so called Joint Environmental Policy making JEP is increasingly being presented as a third way alongside direct regulation through laws and the use of financial sticks and carrots in the form of eco taxes and subsidies Successes and failures are reported from JEP experiences in various European countries This book seeks to evaluate these experiences Is JEP really the panacea it is sometimes claimed to be To what extent does JEP actually fit into different national policy systems and cultures Is the application of JEP dependant on specific circumstances In answering these and other questions the book focuses on the forces and institutional conditions that are likely to promote the introduction determine the form and contribute to the successful functioning of JEP arrangements Against the background of both deregulation and ecological modernization tendencies in European environmental policy this book offers detailed analysis of JEP in three European countries Austria Denmark and the Netherlands and in three areas industrial energy efficiency food labelling and package waste The volume contributes to a better understanding of JEP in Europe and formulates policy recommendations for its successful implementation But it also contributes to comparative environmental policy studies in providing an innovative approach

**Solid Waste Technology and Management** Thomas Christensen, 2011-08-02 The collection transportation and subsequent processing of waste materials is a vast field of study which incorporates technical social legal economic environmental and regulatory issues Common waste management practices include landfilling biological treatment incineration and recycling all boasting advantages and disadvantages Waste management has changed significantly over the past ten years with an increased focus on integrated waste management and life cycle assessment LCA with the aim of reducing the reliance on landfill with its obvious environmental concerns in favour of greener solutions With contributions from more than seventy internationally known experts presented in two volumes and backed by the International Waste Working Group and the International Solid Waste Association detailed chapters cover Waste Generation and Characterization Life Cycle Assessment of Waste Management Systems Waste Minimization Material Recycling Waste Collection Mechanical Treatment and Separation Thermal Treatment Biological Treatment Landfilling Special and Hazardous Waste Solid Waste Technology Management is a balanced and detailed account of all aspects of municipal solid waste management treatment and disposal covering both engineering and management aspects with an overarching emphasis on the life cycle approach

International Packaging Abstracts , 1984

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