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Rigid Plastics Packaging Materials Processes And Applications

Brendan G. Carr



Rigid Plastics Packaging Materials Processes And Applications:

Rigid Plastics Packaging F. Hannay, 2002 This report starts with a simple overview of materials processes and application for rigid plastics packaging and progresses to the latest developments Processing methods are described briefly in the review with an overview of each type accompanied by a discussion of forthcoming developments The properties of the different polymers and polymer grades related to packaging applications are also discussed The review is accompanied by over 400 summaries of papers from the Rapra Polymer Library on developments in polymers processes and applications for rigid packaging

Bonding Elastomers G. Polaski, J. Means, 2004 This review has been written as a practical approach to bonding various kinds of elastomers to substrates such as steel and plastics as used in the manufacture of diverse products such as rubber covered rolls urethane fork lift wheels rubber lining for chemical storage or solid rocket motors engine bushes and mounts seals for transmissions electrical power connectors and military tank track pads Based on the authors years of experience working closely with end use customers and it offers a thorough overview of how to successfully bond rubber to a given substrate in the manufacture of quality rubber engineered components This review is supported by an indexed section containing several hundred key references and abstracts selected from the Rapra Abstracts database

Troubleshooting Injection Moulding Vanessa Goodship, 2004 Annotation Injection moulding is one of the most commonly used processing technologies for plastics materials Proper machine set up part and mould design and material selection can lead to high quality production This review outlines common factors to check when preparing to injection mould components so that costly mistakes can be avoided This review examines the different types of surface defects that can be identified in plastics parts and looks at ways of solving these problems Useful flow charts to illustrate possible ways forward are included Case studies and a large number of figures make this a very useful report

Styrenic Copolymers Andreas Chrisochou, Daniel Dufour, 2002 This report discusses the different types of styrenic copolymers available in the market place today their properties and applications The market situation is discussed The chemistry of these materials is outlined together with a summary of manufacturing methods The morphology manufacture and properties of key materials are described This review is accompanied by summaries of the cited papers from the Rapra Polymer Library database

Biocides in Plastics D. Nichols, 2004 This Rapra Review Report examines the use of biocides in plastics with reference to material types and application requirements The commonly available biocides are reviewed and details of their strengths and weaknesses are provided The author reviews the frequently used test methods for fungi and bacteria and in an ever changing regulatory environment explores the influence of legislation on the current and future use of such biocides This detailed and state of the art review is supported by an indexed section containing several hundred key references and abstracts selected from the Polymer Library database

Thermoplastic Materials Christopher C. Ibeh, 2011-04-25 This text offers a detailed presentation of thermoplastic materials that are commercially available for the plastics and polymer

industries It discusses chemical structure property relationships and various categories of thermoplastic resins including general purpose commodity quasicommodity engineering and specialty Some of the thermoplastics covered include polycarbonate nylon ABS and PMMA Using a process oriented format the author explores application areas of thermoplastics to elucidate the interrelation and effect of processing on the properties and performance of these materials

Polyolefin Foams Nigel Mills, N. J. Mills, 2003 Polyolefin Foams are a relatively recent development compared to the other types of foam Topics covered in this review include processing and the properties required for successful foam production the molecular structures necessary the mechanical and thermal properties and how these can be used to best advantage markets and applications The review is accompanied by around 400 abstracts from the Polymer Library database

Epoxy Composites Debdata Ratna, 2007-08 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

Geosynthetics David I. Cook, 2003 Geosynthetics often play critical roles in civil engineering and it is important that the materials in use can withstand the physical and chemical pressures of the environment These range from resistance to leachates from landfill to resistance to root damage in soil liners as well as standard properties such as resistance to creep oxidation and UV light and tensile strength This Rapra Review Report discusses the polymers used in each category of geosynthetics production methods test methods and applications The review is accompanied by around 400 abstracts from papers and books in the Rapra Polymer Library database to facilitate further reading on this subject

Adhesion to Fluoropolymers Derek Brewis, Ralf H. Dahm, 2006 Developments in Thermoplastic Elastomers K. E. Kear, 2003 Thermoplastic elastomers TPEs have the elastic behaviour of rubber and the processability of thermoplastics The Freedonia Group has forecast that demand will expand by 6.4% per year to around 2.15 million tons in 2006 There is potential for these new exciting materials to expand into the much larger thermoset rubber markets This review includes comparisons between the two material types There are three major types of TPE block copolymers rubber plastic blends and dynamically vulcanised rubber plastic alloys known as thermoplastic vulcanisates The chemistry of these materials and how

Pharmaceutical Applications of Polymers for Drug Delivery David S. Jones, David Jones, 2004 Annotation The review focuses on the use of pharmaceutical polymer for controlled drug delivery applications Examples of pharmaceutical polymers and the principles of controlled drug delivery are outlined and

applications of polymers for controlled drug delivery are described The field of controlled drug delivery is vast therefore this review aims to provide an overview of the applications of pharmaceutical polymers The review is accompanied by approximately 250 abstracts taken from papers and books in the Rapra Polymer Library database to facilitate further reading on this subject

Food Packaging Cornelia Vasile, Morten Sivertsvik, 2019-04-18 Because of the increasing pressure on both food safety and packaging food waste the topic is important both for academics applied research industry and also for environment protection Different materials such as glass metals paper and paperboards and non degradable and degradable polymers with versatile properties are attractive for potential uses in food packaging Food packaging is the largest area of application within the food sector Only the nanotechnology enabled products in the food sector account for 50% of the market value with and the annual growth rate is 11 65% Technological developments are also of great interest In the food sector nanotechnology is involved in packaging materials with extremely high gas barriers antimicrobial properties and also in nanoencapsulants for the delivery of nutrients flavors or aromas antimicrobial and antioxidant compounds Applications of materials including nanomaterials in packaging and food safety are in forms of edible films polymer nanocomposites as high barrier packaging materials nanocoatings surface biocides silver nanoparticles as potent antimicrobial agents nutrition and nutraceuticals active bioactive packaging intelligent packaging nanosensors and nanomaterial based assays for the detection of food relevant analytes gasses small organic molecules and food borne pathogens and bioplastics

Analysis of Thermoset Materials, Precursors and Products Martin J. Forrest, 2003 This report presents an overview of the chemical analysis of thermosets Materials based on thermosets present the analyst with considerable challenges due to their complexity and the wide range of polymer types and additives available This review sets out to present an introduction to the analytical techniques and methods that are used to characterise and carry out quality control work on thermosets investigate the failure of thermosets products and to reformulate thermoset compounds The review is accompanied by around 400 abstracts from papers and books in the Rapra Polymer Library database to facilitate further reading on this subject

EU Regulation of Chemicals D. J. Knight, 2006

Coatings and Inks for Food Contact Materials Martin Forrest, 2007-10 This Rapra Review Report Coatings and Inks for Food Contact Materials has attempted to cover all of the coatings and inks products used in food contact scenarios In practice this encompasses an extremely wide range of polymer systems and formulations and an emphasis has been placed on coatings and inks used in food packaging as this is usually regarded as representing the most important application category with respect to the potential for migration to occur In addition to a thorough introduction of the polymers and additives that are used to produce coatings and inks there are also chapters covering the regulation of these materials the migration and analytical tests that are performed on them to assess their suitability for food contact applications the migration data that have been published and the areas in the field that are receiving the most attention for research and development The report is accompanied by around 400 abstracts compiled

from the Polymer Library to facilitate further reading on this subject Polymer Processing with Supercritical Fluids Vannessa Goodship, Erich Ogur, 2004 SCFs are currently the subjects of intense research and commercial interest Applications such as the RESS rapid expansion of supercritical fluid solutions process are part of standard industrial practice In view of their ever growing importance in the polymer industry there is a need to fully comprehend how supercritical fluids interrelate with polymeric materials to realise the potential that can be gained from their use The authors review the basic principles of SCFs and their application within the polymer industry characteristics and properties extraction of unwanted residual products polymerisation solvents and polymer impregnation Processing applications such as plasticisation foaming and blending are also considered There is discussion of the potential within the polymer recycling industry for use of SCFs as cleaning agents or within supercritical oxidation processes Around 400 references with abstracts from recent global literature accompany this review sourced from the Polymer Library to facilitate further reading A subject index and a company index are included *Fluoroplastics* Jiri George Drobný, 2006 Fluoropolymers were discovered accidentally by Plunkett in 1938 He was working on freon and accidentally polymerised tetrafluoroethylene The result was polytetrafluoroethylene PTFE more commonly known as Teflon PTFE is inert to virtually all chemicals and is considered to be the most slippery material in existence it has the lowest coefficient of friction of any known solid material These properties have made it one of the most valuable and versatile technologies ever invented contributing to significant advancements in areas such as aerospace communications electronics industrial **Nucleating Agents** Stuart Fairgrieve, 2007-11 A very important factor in obtaining optimised physical properties from a semi crystalline polymer is the size of the crystalline structures present in the material and this crucially depends on the initiation process of crystallisation of the polymer from the melt nucleation This review provides information on the development of materials and methods for influencing the nucleation of polymer crystallisation in commercial processing by means of addition of low levels of adjuvants specifically selected for this purpose

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