

Permeability Properties

of Plastics and Elastomers

A Guide to Packaging and Barrier Materials

2nd Edition

Liesl Massey



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William Woishnis



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Bio and Nano Packaging Techniques for Electron Devices Gerald Gerlach, Klaus-Jürgen Wolter, 2012-07-16 This book discusses future trends and developments in electron device packaging and the opportunities of nano and bio techniques as future solutions It describes the effect of nano sized particles and cell based approaches for packaging solutions with their diverse requirements It offers a comprehensive overview of nano particles and nano composites and their application as packaging functions in electron devices The importance and

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Fellows,2009-06-22 The first edition of Food processing technology was quickly adopted as the standard text by many food science and technology courses This completely revised and updated third edition consolidates the position of this textbook as the best single volume introduction to food manufacturing technologies available This edition has been updated and extended to include the many developments that have taken place since the second edition was published In particular advances in microprocessor control of equipment minimal processing technologies functional foods developments in active or intelligent packaging and storage and distribution logistics are described Technologies that relate to cost savings environmental improvement or enhanced product quality are highlighted Additionally sections in each chapter on the impact of processing on food borne micro organisms are included for the first time Introduces a range of processing techniques that are used in food manufacturing Explains the key principles of each process including the equipment used and the effects of processing on micro organisms that contaminate foods Describes post processing operations including packaging and distribution logistics Film Properties of Plastics and Elastomers Laurence W. McKeen,2017-06-16

Film Properties of Plastics and Elastomers Fourth Edition is the only data handbook available on the engineering properties of commercial polymeric films It details many physical mechanical optical electrical and permeation properties within the context of specific test parameters providing a ready reference for comparing materials in both the same and different families Data is presented on the characteristics of major plastic and elastomer packaging materials with the data in this edition updated to cover the five years since the previous edition was published The resin chapters each contain textual summary information including category general description processing methods applications reliability weatherability and regulatory approval considerations for use in food and medical packaging Provides an essential reference tool for the workflow of engineers and scientists involved in the plastics industry Details a broad range of film properties enabling engineers and professionals to compare and select materials Provides a life of product approach with coverage ranging from properties and key concepts through to production and applications *Oxidative Stability and Shelf Life of Foods Containing Oils and Fats* Min

Hu,Charlotte Jacobsen,2016-01-19 *Oxidative Stability and Shelf Life of Foods Containing Oils and Fats* focuses on food stability and shelf life both important factors in the improvement and development of food products This book relevant for professionals in the food and pet food industries presents an evaluation of methods for studies on the oxidative stability and shelf life of bulk oils fats fried oils and foods food emulsions dried foods meat and meat products and seafood in food and pet

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plastics fabrication and performance Covers technical properties fabrication methods economics design calculations regulations use of *Polymer Permeability* John Comyn,1985 **Current Technologies in Flexible Packaging** Michael L. Troedel,1986 *Technical Advances in Packaging with Flexible Barrier Materials* S. G. Gilbert,Symposium on Technical Advances in Packaging with Flexible Barrier Materials,1973 **Effect of Temperature and other Factors on Plastics and Elastomers** Laurence W. McKeen,2008-12-05 This book is an update to the first edition compiled and published in 1990 by William Woishnis A lot has changed in the field since 1990 and a lot has not changed There are new plastic materials There has been a huge turnover in ownership of plastics producing companies There has been a lot of consolidation which of course means discontinued products Thus this update is much more extensive than the usual next edition It has been reorganized from a chemistry point of view Plastics of similar polymer types are grouped into nine chapters Each of these chapters includes an introduction with a brief explanation of the chemistry of the polymers used in the plastics An extensive first chapter has been added as an introduction that summarizes the chemistry of making polymers the formulation of plastics testing and test methods and plastic selection Most plastic products and parts are expected to be used in environments other than room temperature and standard humidity conditions Chapters 2 10 are a databank that serves as an evaluation of plastics as they are exposed to varying operating conditions at different temperatures humidity and other factors Over 900 graphs for more than 45 generic families of plastics are contained in these chapters Chapter 11 contains extensive mechanical and electrical data in tabular form The tables contain data on several thousand plastics Similarly Chapter 12 contains thermal data on several thousand plastics Data from the first edition have only been removed if those products were discontinued and many products were Product names and manufacturers have been updated Detailed introductions of plastics properties testing procedures and principles of plastics design The only databook available on the effects of temperature and humidity conditions on plastics and elastomers More than 1 000 graphs and tables allow for easy comparison between products Covers more than 70 types of plastics and summarizes the chemistry of each type

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