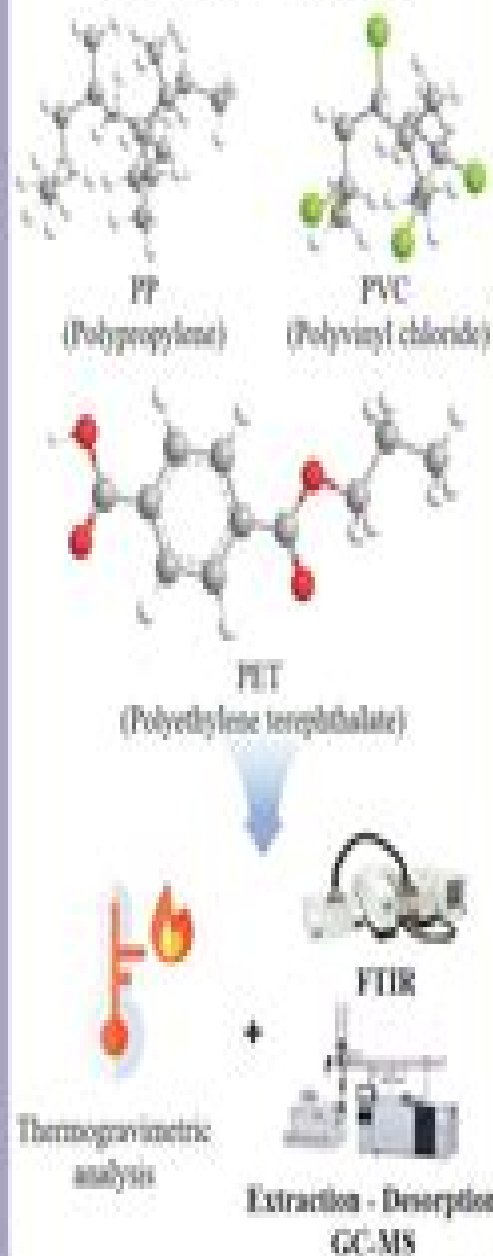
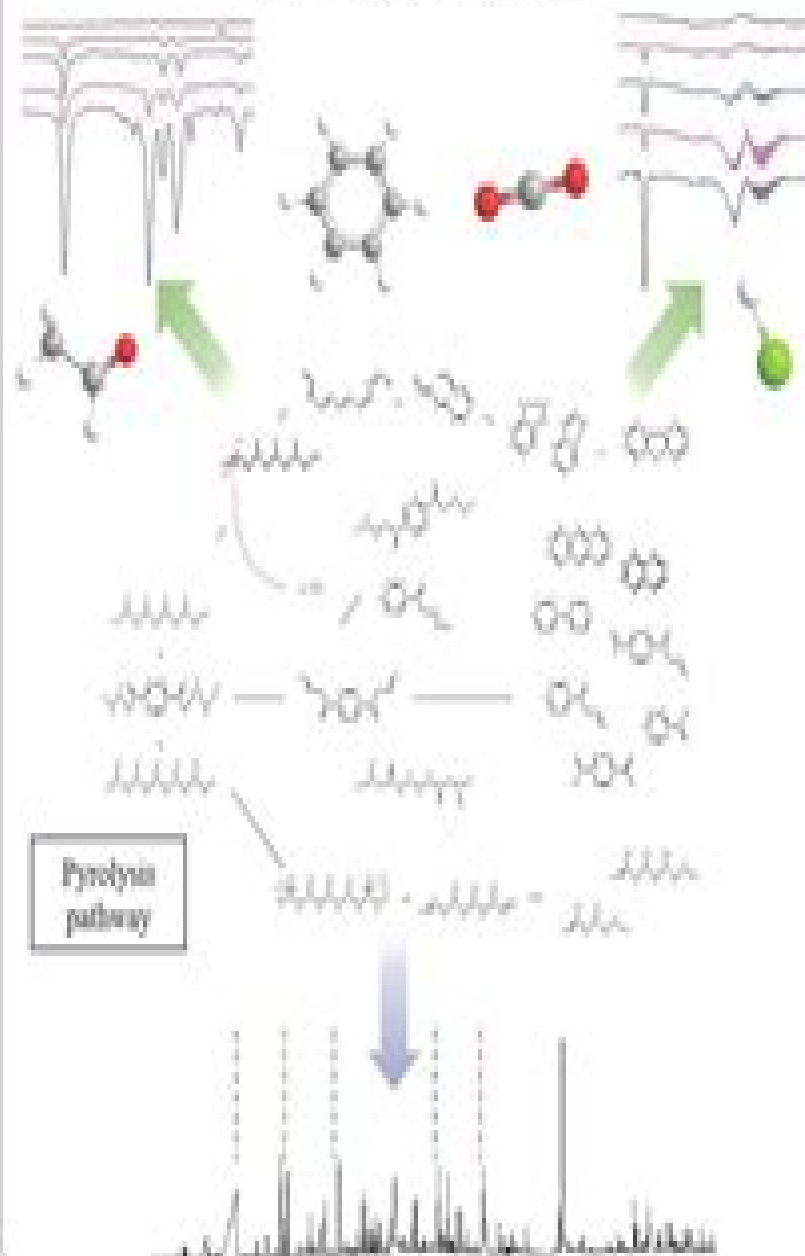


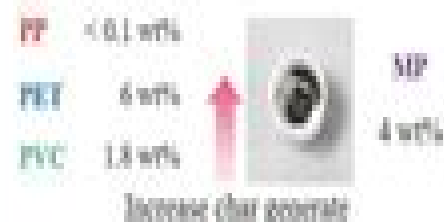
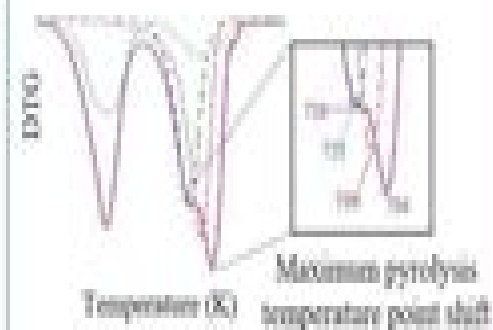
## Pyrolysis of microplastics (individual and mixture)



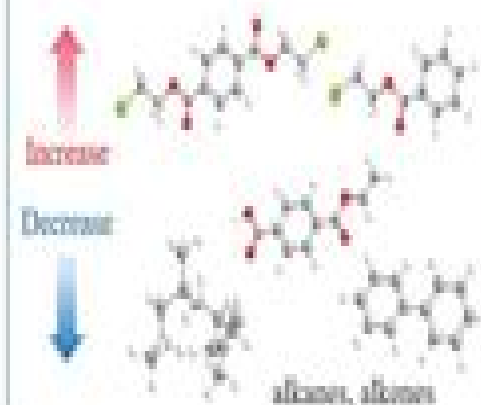
## Gas chromatogram & IR spectrum-based pyrolysis pathway proposal



## Interactions affecting quantification Changes in pyrolysis behavior



## Interactions intermediates



# Pyrolysis And Gc In Polymer Analysis

**Shin Tsuge, Hajima Ohtani, Chuichi  
Watanabe**



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*Pyrolysis and GC in Polymer Analysis* Michael N. Liebman, 1984-12-28      *Pyrolysis - GC/MS Data Book of Synthetic Polymers* Shin Tsuge, Hajima Ohtani, Chuichi Watanabe, 2011-08-02 In this data book both conventional Py GC MS where thermal energy alone is used to cause fragmentation of given polymeric materials and reactive Py GC MS in the presence of organic alkaline for condensation polymers are compiled Before going into detailed presentation of the data however acquiring a firm grip on the proper understanding about the situation of Py GC MS would promote better utilization of the following pyrolysis data for various polymers samples This book incorporates recent technological advances in analytical pyrolysis methods especially useful for the characterization of 163 typical synthetic polymers The book briefly reviews the instrumentation available in advanced analytical pyrolysis and offers guidance to perform effectually this technique combining with gas chromatography and mass spectrometry Main contents are comprehensive sample pyrograms thermograms identification tables and representative mass spectra MS of pyrolyzates for synthetic polymers This edition also highlights thermally assisted hydrolysis and methylation technique effectively applied to 33 basic condensation polymers Coverage of Py GC MS data of conventional pyrograms and thermograms of basic 163 kinds of synthetic polymers together with MS and retention index data for pyrolyzates enabling a quick identification Additional coverage of the pyrograms and their related data for 33 basic condensation polymers obtained by the thermally assisted hydrolysis and methylation technique All compiled data measured under the same experimental conditions for pyrolysis gas chromatography and mass spectrometry to facilitate peak identification Surveyable instant information on two facing pages dedicated to the whole data of a given polymer sample      **Pyrolysis-gas Chromatography/mass Spectrometry Of Polymeric Materials (Second Edition)** Peter Kusch, 2023-08-28 Readers will find many practical applications of pyrolysis GC MS as well as R D usage in this newly revised and expanded edition Detailed experimental descriptions for the identification of synthetic polymers and copolymers are included This volume presents the current state of analytical pyrolysis and contains full identification of several classes of polymers copolymers and biopolymers that readers will find helpful Structures and functions of various types of pyrolyzers are explored as well as the results of the pyrolysis gas chromatographic mass spectrometric identification of synthetic polymers copolymers and biopolymers at 700 C Practical applications of this hyphenated technique detailing the analysis of microplastics failure analysis in the automotive industry and solutions for technological problems are provided Numerous practical applications of pyrolysis GC MS for industrial and R D usage will be of benefit to Chemists and Engineers as well as for students of Chemistry and Polymer Sciences      **Encyclopedia of Chromatography** Jack Cazes, 2005 A convenient source of information for workers in analytical chemistry experimental biology physics and engineering the Encyclopedia of Chromatography Second Edition stands as a quick reference source and clear guide to specific chromatographic techniques and principles The book offers a basic introduction to the science and technology of the method

as well as additional references on the theory and methodology for analysis of specific chemicals and applications in a range of industries It contains over 400 cross referenced articles with more than 80 entirely new articles including many new discussions on emerging technologies instrumentation and applications in chromatography

**Compositional and Failure Analysis of Polymers** John Scheirs, 2000-10-03 Intended as a practical guide for polymer technologists engineers and analysts in the plastics composites and rubber fields this title describes a range of techniques and strategies for compositional and failure analysis of polymeric materials and products Numerous examples illustrate the application of analytical methods for solving commonly encountered problems in the polymer industry The reader is guided towards the most appropriate method of analysis and measurement and the most likely reasons for the failure Areas covered include Migration and interaction of additives Mechanical stress and stress cracking Crazing and fracture Residual stress and weld lines Contamination and discoloration Numerous pedagogical methods illustrative flow diagrams figures and tables are used throughout the text to make it an invaluable guide to all analysts and polymer engineers in industrial or academic laboratories

**Pyrolysis and GC in Polymer Analysis** S.A. Liebman (ed), **Mass Spectrometry of Polymers - New Techniques** Minna Hakkarainen, 2012-03-14 Emerging Mass Spectrometric Tools for Analysis of Polymers and Polymer Additives by Nina Aminlashgari and Minna Hakkarainen Analysis of Polymer Additives and Impurities by Liquid Chromatography Mass Spectrometry and Capillary Electrophoresis Mass Spectrometry by Wolfgang Buchberger and Martin Stifter Direct Insertion Probe Mass Spectrometry of Polymers by Jale Hacaloglu Mass Spectrometric Characterization of Oligo and Polysaccharides and Their Derivatives by Petra Mischnick Electrospray Ionization Mass Spectrometry for Molecular Level Understanding of Polymer Degradation by Minna Hakkarainen

*Pyrolysis-gas Chromatography* Peter Kusch, 2022 The methodology of analytical pyrolysis GC MS has been known for several years but is seldom used in research laboratories and process control in the chemical industry This is due to the relative difficulty of interpreting the identified pyrolysis products as well as the variety of them This book contains full identification of several classes of polymers copolymers and biopolymers that can be very helpful to the user In addition the practical applications can encourage analytical chemists and engineers to use the techniques explored in this volume The structure and the functions of various types of pyrolyzers and the results of the pyrolysis gas chromatographic mass spectrometric identification of synthetic polymers copolymers and biopolymers at 700 C are described Practical applications of these techniques are also included detailing the analysis of microplastics failure analysis in the automotive industry and solutions for technological problems Four years after the publication of the book *Pyrolysis Gas Chromatography Mass Spectrometry of Polymeric Materials* WSPC is offering a second extended and revised edition of this book to interested readers

**Comprehensive Desk Reference of Polymer Characterization and Analysis** Robert F. Brady, 2003 This book is a practical manual for those who analyze polymers Self contained chapters describe when a technique should be selected explain its basic principles describe how

instruments are constructed and operated and teach how the data obtained relate to molecular structure and physical properties Many clear illustrations are included Implicit memory refers to a change in task performance due to an earlier experience that is not consciously remembered This book is not a research manual but rather a guide to performing and understanding polymer characterization and an introduction to the specialized literature of the analytical chemistry of polymers The techniques covered are directly relevant to the characterization of synthetic polymers such as adhesives sealants polymers composites coatings elastomers rubber and other nonmetallic materials Many techniques are also quite useful for natural and biological polymers

**Plastics Failure** Myer Ezrin, 2013-08-01 Plastics failure to a certain extent is the result of a phenomenal increase in the number and variety of applications in relatively few years The focus of this book is on actual field and product failures The treatment is comprehensive emphasizing cause and prevention The concept of the interdependence of material design and processing is applied to all examples and cases The how to of prevention is brought out as a logical extension of the cause of failure Contents Nature Causes and Consequences of Plastics Failure Fundamental Materials Variables Affecting Processing and Product Performance or Failure Failures Related to Design and Material Selection Examples Processing Related Factors to Failure Failure Related to Service Conditions Failure Analysis and Test Procedures Quality Control Legal Aspects of Plastic Product Liability and Failure Examples of Failures in Various Applications

*Pyrolysis-based Methods for Polymer Characterization* Wouter Knol, 2023 The field of polymer analysis features many challenges In general there is a need for novel or improved analytical methods for contemporary industrial copolymers Such polymers are often extremely complex featuring distributions in molar mass chemical composition sequence etc In this work various aspects of copolymer analysis were explored to advance the field to better meet current industrial needs Two main aspects of copolymer analysis were investigated namely sequence determination and heterogeneity analysis as a function of molar mass The sequence analysis of copolymers gives insight in the order of monomers in the polymer backbone Pyrolysis gas chromatography Py GC was explored as a method for the analysis of acrylate copolymers It was found that the method was well applicable to the sequencing of acrylate copolymers even being capable of sequencing ternary copolymers The sequencing of styrene acrylate copolymers was also investigated and proved to be more challenging requiring an external calibration approach to derive sequence information For the heterogeneity analysis of copolymers various hyphenations of liquid chromatography and pyrolysis based analysis methods were developed A method for Py GC hyphenation to size exclusion chromatography was developed this method provided detailed information on the polymer's chemical nature as a function of molar mass The method required relatively long analysis time however therefore the GC separation was omitted in a later study yielding a size exclusion chromatography pyrolysis mass spectrometry hyphenation This method yielded greatly reduced analysis times while delivering comparable chemical information Overall the research covered in this work should accelerate the development of novel sustainable polymers

Polymer Analysis and

Characterization ,1990      **Applied Polymer Analysis and Characterization** H. Anders,1987      **Forensic Science Review** ,1991      Gas and Liquid Chromatography in Analytical Chemistry Roger M. Smith,1988-12-12 This is a comprehensive introduction to the practice and applications of modern instrumental gas and liquid chromatography for use in industrial and research laboratories      **Gas Chromatography of Polymers** ,2011-09-22 Gas Chromatography of Polymers      **Chromatography Mass Spectroscopy in Polymer Analysis** T. R Crompton,2010-12-02 The combination of chromatography with mass spectroscopy is a very useful technique which is being increasingly used by polymer chemists to improve existing polymers and to discover new ones with specific physical properties such as thermal stability and retention of properties over a long service life This technique is extremely powerful for the analysis and characterisation of polymers and is often based on the use of controlled chromatography mass spectroscopy to measure a polymer s decomposition with techniques such as pyrolysis followed by chromatography to separate any breakdown product and finally mass spectroscopy to achieve an unequivocal identification of the pyrolysis products obtained The detail that can be obtained by such methods includes structure of the polymer backbone branching end groups isomeric detail and fine detail in the structure of copolymers The first three chapters of the book discuss the various chromatographic and mass spectroscopic techniques now available Chapters 3 8 cover the complementary methods based on the combination of mass spectroscopy with various chromatographic techniques such as high performance liquid chromatography gas chromatography and supercritical fluid chromatography Pyrolysis chromatography mass spectroscopy is a method of studying the structure of polymers which involves subjecting the polymer pyrolysis products to a chromatographic technique to simplify subsequent analysis and finally mass spectroscopy to identify the pyrolysis products with the possibility of deducing finer details of polymer structure than were previously attainable by classical methods Chapters 9 11 By providing a thorough up to date review of work in this field it is hoped that the book will be of interest to all those engaged in polymer research and development and polymer users in general      Annual Book of ASTM Standards ASTM International,American Society for Testing and Materials,2004      The Encyclopedia of Mass Spectrometry: Hyphenated methods Michael L. Gross,R. M. Caprioli,2003      **HDBK CHROMATOGRAPHY POLYMERS** Charles G. Smith,1982-08-20 Section L

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