

READING FREE HANDBOOK FOR THE CHEMICAL ANALYSIS OF PLASTIC AND POLYMER ADDITIVES SECOND EDITION [PDF]

POLYMER ADDITIVES NMR SPECTRA OF POLYMERS AND POLYMER ADDITIVES PLASTICS ADDITIVES HANDBOOK FOR THE CHEMICAL ANALYSIS OF PLASTIC AND POLYMER ADDITIVES, SECOND EDITION ADDITIVES IN POLYMERS
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POLYMER ADDITIVES 2012-12-06

EVER SINCE THE BEGINNING OF THE PLASTICS AND RUBBER INDUSTRY IT WAS REALIZED THAT USEFUL PRODUCTS COULD BE PRODUCED ONLY IF CERTAIN ADDITIVES WERE INCORPORATED INTO POLYMERS WITH THE HELP OF THESE ADDITIVES WHEN PHYSICALLY DISPERSED IN A POLYMER MATRIX IT HAS BEEN POSSIBLE TO IMPROVE STABILITY AGAINST THERMAL OXIDATIVE UV HYDROLYTIC AND BIOLOGICAL DEGRADATION MECHANICAL PROPERTIES FLAMMABILITY COST AND PROCESSIBILITY OF PLASTICS THE ENORMOUS GROWTH OF THE VOLUME OF PLASTICS CONSUMED BY MODERN SOCIETY AND NEW APPLICATION AREAS FOR PLASTICS HAVE CREATED A DEMAND FOR NEW BETTER ADDITIVES AND BETTER UNDERSTANDING OF THEIR FUNCTIONS IN POLYMER SYSTEMS AS A RESULT OF THESE TRENDS THERE IS A NEED FOR SHARING OF INFORMATION ON PROGRESS ACHIEVED IN THE AREA OF POLYMER ADDITIVES AMONG ENGINEERS AND SCIENTISTS OF THE PLASTICS INDUSTRY AND ACADEMIA THIS BOOK IS BASED ON EXPANDED AND UPDATED PAPERS ORIGINALLY PRESENTED AT THE INTERNATIONAL SYMPOSIUM ON POLYMER ADDITIVES WHICH WAS HELD IN LAS VEGAS NEVADA AND WAS SPONSORED BY THE AMERICAN CHEMICAL SOCIETY DIVISION OF POLYMERIC MATERIALS SCIENCE AND ENGINEERING THE BOOK IS DIVIDED INTO FIVE PARTS WHICH COVER ADVANCES IN VARIOUS AREAS OF POLYMER ADDITIVES THE FIRST PART IS DEVOTED TO THE PROGRESS IN UNDERSTANDING OF UV DEGRADATION AND STABILIZATION OF VARIOUS POLYMERS OXIDATION DEGRADATION AND STABILIZATION OF PLASTIC MATERIALS IS COVERED IN THE SECOND PART NEW DEVELOPMENTS IN THE STABILIZATION OF PVC ARE PRESENTED IN THE THIRD PART

NMR SPECTRA OF POLYMERS AND POLYMER ADDITIVES 2000-05-12

COMPILES NEARLY 400 FULLY ASSIGNED NMR SPECTRA OF APPROXIMATELY 300 POLYMERS AND POLYMER ADDITIVES REPRESENTING ALL MAJOR CLASSES OF MATERIALS POLYOLEFINS STYRENICS ACRYLATES METHACRYLATES VINYL POLYMERS ELASTOMERS POLYETHERS POLYESTERS POLYIMIDES SILICONES CELLULOSICS POLYURETHANES PLASTICIZERS AND ANTIOXIDANTS

PLASTICS ADDITIVES 2012-12-06

ALTHOUGH PLASTICS ARE EXTREMELY SUCCESSFUL COMMERCIALY THEY WOULD NEVER REACH ACCEPTABLE PERFORMANCE STANDARDS EITHER IN PROPERTIES OR PROCESSING WITHOUT THE INCORPORATION OF ADDITIVES WITH THE INCLUSION OF ADDITIVES PLASTICS CAN BE USED IN A VARIETY OF AREAS COMPETING DIRECTLY WITH OTHER MATERIALS BUT THERE ARE STILL MANY CHALLENGES TO OVERCOME SOME ADDITIVES ARE SEVERELY RESTRICTED BY LEGISLATION OTHERS INTERFERE WITH EACH OTHER IN SHORT THEIR EFFECTIVENESS VARIES WITH CIRCUMSTANCES PLASTICS ADDITIVES EXPLAINS THESE ISSUES IN AN ALPHABETICAL FORMAT MAKING THEM EASILY ACCESSIBLE TO READERS ENABLING THEM TO FIND SPECIFIC INFORMATION ON A SPECIFIC TOPIC EACH ADDITIVE IS THE SUBJECT OF ONE OR MORE ARTICLES PROVIDING A SUFFICIENT ACCOUNT OF EACH GIVEN TOPIC AN INTERNATIONAL GROUP OF EXPERTS IN ADDITIVE AND POLYMER SCIENCE FROM MANY WORLD CLASS COMPANIES AND INSTITUTES EXPLAIN THE RECENT RAPID CHANGES IN ADDITIVE TECHNOLOGY THEY COVER NOVEL ADDITIVES SCORCH INHIBITORS COMPATIBILIZERS SURFACE MODIFIED PARTICULATES ETC THE ESTABLISHED VARIETIES ANTIOXIDANTS BIOCIDES ANTISTATIC AGENTS NUCLEATING AGENTS FILLERS FIBRES IMPACT MODIFIERS PLASTICIZERS AND MANY OTHERS THE ARTICLES ALSO CONSIDER ENVIRONMENTAL CONCERNS INTERACTIONS BETWEEN ADDITIVES AND LEGISLATIVE CHANGE WITH A QUICK REFERENCE GUIDE AND INTRODUCTORY ARTICLES THAT PROVIDE THE NON SPECIALIST AND NEWCOMER WITH RELEVANT INFORMATION THIS REFERENCE BOOK IS ESSENTIAL READING FOR ANYONE CONCERNED WITH PLASTICS AND ADDITIVES

HANDBOOK FOR THE CHEMICAL ANALYSIS OF PLASTIC AND POLYMER ADDITIVES, SECOND EDITION 2015-09-25

POLYMERS HAVE UNDOUBTEDLY CHANGED THE WORLD THROUGH MANY PRODUCTS THAT IMPROVE OUR LIVES HOWEVER ADDITIVES USED TO MODIFY THE OVERALL CHARACTERISTICS OF THESE MATERIALS MAY NOT BE FULLY DISCLOSED OR UNDERSTOOD THESE ADDITIVES MAY PRESENT POSSIBLE ENVIRONMENTAL AND HEALTH HAZARDS IT IS IMPORTANT TO MONITOR CONSUMER PRODUCTS FOR THESE COMPOUNDS USING HIGH QUALITY REFERENCE MATERIALS AND DEPENDABLE ANALYTICAL TECHNIQUES THE HANDBOOK FOR THE CHEMICAL ANALYSIS OF PLASTIC AND POLYMER ADDITIVES SECOND EDITION PROVIDES THE NECESSARY TOOLS FOR CHEMISTS TO OBTAIN A MORE COMPLETE LISTING OF ADDITIVES PRESENT IN A PARTICULAR POLYMERIC MATRIX IT IS DESIGNED TO SERVE AS A VALUABLE SOURCE FOR THOSE MONITORING A POLYMER PLASTIC MATERIAL FOR REGULATORY OR INTERNAL COMPLIANCE IT ALSO HELPS ANALYSTS TO CORRECTLY IDENTIFY THE COMPLEX NATURE OF THE MATERIALS THAT HAVE BEEN ADDED TO THE POLYMER PLASTIC WITH 50 ADDITIONAL COMPOUNDS THIS SECOND EDITION NEARLY DOUBLES THE NUMBER OF ADDITIVES IN SEVERAL CATEGORIES INCLUDING PROCESSING AIDS ANTISTATIC COMPOUNDS MOULD RELEASE PRODUCTS AND BLOWING AGENTS IT INCLUDES A LISTING THAT CAN BE CROSS REFERENCED BY TRADE NAME CHEMICAL NAME CAS NUMBER AND EVEN KEY MASS UNIT IONS FROM THE GC MS RUN ADDRESSING ADDITIVES FROM AN ANALYTICAL VIEWPOINT THIS COMPREHENSIVE HANDBOOK HELPS READERS IDENTIFY THE ADDITIVES IN PLASTICS THIS INFORMATION CAN BE USED TO ASSESS COMPLIANCE WITH REGULATIONS ISSUED BY THE FDA US EPA EU AND OTHER AGENCIES

ADDITIVES IN POLYMERS 2005-04-08

THIS INDUSTRIALLY RELEVANT RESOURCE COVERS ALL ESTABLISHED AND EMERGING ANALYTICAL METHODS FOR THE DEFORMULATION OF POLYMERIC MATERIALS WITH EMPHASIS ON THE NON POLYMERIC COMPONENTS EACH TECHNIQUE IS EVALUATED ON ITS TECHNICAL AND INDUSTRIAL MERITS EMPHASIS IS ON UNDERSTANDING PRINCIPLES AND CHARACTERISTICS AND INDUSTRIAL APPLICABILITY EXTENSIVELY ILLUSTRATED THROUGHOUT WITH OVER 200 FIGURES 400 TABLES AND 3 000 REFERENCES

POLYMER ADDITIVES 1984-09

HANDBOOK OF POLYMER PROCESSING ADDITIVES PROVIDES INSIGHTS ON THE SELECTION OF ADDITIVES THEIR PERFORMANCE MECHANISMS ESSENTIAL APPLICATION PROPERTIES AND A COMPLETE ANALYSIS OF RELATED LITERATURE AND PATENTS ACID SCAVENGERS AIR RELEASE ANTICAKING ANTIGASSING ANTI GELLING ANTI SETTLING HYDROLYSIS STABILIZERS AND MOISTURE SCAVENGERS ARE EACH COVERED INFORMATION ON THE USE OF ADDITIVES IN VARIOUS PRODUCTS IS DIVIDED INTO SECTIONS ON TYPES CONCENTRATIONS USAGE ADVANTAGES AND DISADVANTAGES EFFECTS ON PRODUCT PROPERTIES AND EXAMPLES OF FORMULATION PROCESSING METHODS ARE SIMILARLY DIVIDED INTO SECTIONS ON TYPES AND CONCENTRATIONS EFFECTS ON THE PROCESS EFFECT ON PRODUCT PROPERTIES ADVANTAGES AND DISADVANTAGES AND EXAMPLES OF FORMULATION ALL ESSENTIAL ASPECTS OF CHEMISTRY PHYSICAL PROPERTIES INFLUENCE ON PROPERTIES OF FINAL PRODUCTS FORMULATIONS METHODS OF INCORPORATION ANALYSIS AND EFFECTS ON HEALTH AND ENVIRONMENT ARE CONSIDERED THE BOOK IS AN EXCELLENT COMPANION TO THE DATABOOK OF POLYMER PROCESSING ADDITIVES COVERS THE APPLICATIONS MANUFACTURING SELECTION AND PERFORMANCE MECHANISMS OF POLYMER PROCESSING ADDITIVES PROVIDES A COMPLETE ANALYSIS OF THE CURRENT LITERATURE AND PATENTS OF THESE ADDITIVES DISCUSSES REASONS FOR USE ADVANTAGES AND DISADVANTAGES EFFECTS ON PRODUCT PROPERTIES METHODS OF INCORPORATION AND EFFECTS ON HEALTH AND THE ENVIRONMENT INCLUDES DISCUSSIONS ON ANTIBLOCKING AGENTS ANTIOXIDANTS BIOCIDES FLAME RETARDANTS NUCLEATING AGENTS SOLVENTS PLASTICIZERS AND MORE

THERMOPLASTIC POLYMER ADDITIVES 1989

DATABOOK OF THE MOST IMPORTANT POLYMER AND RUBBER ADDITIVES IS A VITAL REFERENCE FOR ANYONE WORKING WITH POLYMERS AND RUBBERS IT PROVIDES KEY INFORMATION ON THE PROPERTIES OF THE MOST WIDELY USED ADDITIVES THAT CAN BE USED TO ALTER THE PHYSICAL CHEMICAL AND MECHANICAL PROPERTIES OF RUBBERS AND PLASTICS ADDITIVES ARE PRESENTED BY THEIR MAIN CHEMICAL COMPONENT WITH INFORMATION FOR EACH ADDITIVE PROVIDED IN THE FORM OF A TABLE DIVIDED INTO 5 SECTIONS COVERING GENERAL INFORMATION PHYSICAL PROPERTIES HEALTH AND SAFETY CONSIDERATIONS ECOLOGICAL IMPACT AND USE AND APPLICATIONS DATA PROVIDED INCLUDES CAS ACID BASE PROPERTIES ODOR VARIOUS CLOUD POINTS VOLATILITY DATA SURFACE TENSION THERMAL CONDUCTIVITY EXPLOSION LIMITS CARCINOGENICITY OXYGEN DEMANDS BIODEGRADATION PROBABILITY AIR POLLUTION DATA APPLICATIONS IN DIFFERENT POLYMERS AND PRODUCTS PROCESSING REQUIREMENTS AND DOSES FOOD APPROVALS SUBSTITUTES AND MORE THE COMPANION BOOK THE ENCYCLOPEDIA OF POLYMER AND RUBBER ADDITIVES CONTAINS INFORMATION ON THE MECHANISMS OF ACTION OF EACH GROUP OF ADDITIVES THEIR SUITABLE FEATURES AND MODIFICATIONS THEIR EFFECT AND INTERFERENCES IN COMPLEX FORMULATIONS AND IT IS ILLUSTRATED WITH NUMEROUS EXPERIMENTAL EXAMPLES HIGHLIGHTING THEIR PERFORMANCE ASSISTS IN SOLVENT SELECTION BY PROVIDING KEY INFORMATION AND INSIGHT ON ENVIRONMENTAL AND SAFETY ISSUES PROVIDES ESSENTIAL BEST PRACTICE GUIDANCE FOR HUMAN HEALTH CONSIDERATION DISCUSSES THE LATEST ADVANCES AND TRENDS IN SOLVENT TECHNOLOGY INCLUDING MODERN METHODS OF CLEANING CONTAMINATED SOILS SELECTION OF GLOVES SUITS AND RESPIRATORS

HANDBOOK OF POLYMER PROCESSING ADDITIVES 2023-02-07

DATABOOK OF POLYMER PROCESSING ADDITIVES PROVIDES KEY INFORMATION ON THE PROPERTIES OF POLYMER PROCESSING ADDITIVES COVERING THEIR GENERAL INFORMATION PHYSICAL PROPERTIES HEALTH AND SAFETY CONSIDERATIONS ECOLOGICAL PROPERTIES AND USE AND PERFORMANCE DETAILS ACID SCAVENGERS AIR RELEASE ANTICAKING ANTIGASSING ANTI GELLING ANTI SETTLING HYDROLYSIS STABILIZERS MOISTURE SCAVENGERS AND MORE ARE ALL COVERED PROVIDING READERS WITH KEY DATA AIDING IN THE PROPER SELECTION OF THESE ADDITIVES THE BOOK IS AN EXCELLENT COMPANION TO THE HANDBOOK OF POLYMER PROCESSING ADDITIVES OUTLINES KEY DATA ON WIDELY USED PROCESSING ADDITIVES SUCH AS ACID SCAVENGERS AIR RELEASE ANTICAKING ANTIFOAMING ANTIGASSING ANTIGELLING AND ANTISETTLING ADDITIVES AS WELL AS HYDROLYSIS STABILIZERS AND MOISTURE SCAVENGERS PROVIDES GUIDANCE ON THE OPTIMAL SELECTION OF POLYMER PROCESSING ADDITIVES INCLUDES TABLES THAT ARE DIVIDED INTO FIVE GENERAL SECTIONS COVERING GENERAL INFORMATION PHYSICAL PROPERTIES HEALTH AND SAFETY CONSIDERATIONS ECOLOGICAL PROPERTIES AND USE AND PERFORMANCE

DATABOOK OF THE MOST IMPORTANT POLYMER AND RUBBER ADDITIVES 2024-03-01

DATABOOK OF ANTIBLOCKING RELEASE AND SLIP ADDITIVES SECOND EDITION CONTAINS DETAILED INFORMATION ON OVER 300 IMPORTANT ADDITIVES FOR POLYMERS INCLUDING ADDITIVES THAT ARE USED TO MINIMIZE ADHESION AID SEPARATION AND ENHANCE PROCESSING AND END APPLICATIONS FOR POLYMERS EACH ADDITIVE IS PRESENTED WITH DATA IN THE FOLLOWING CATEGORIES GENERAL INFORMATION PHYSICAL PROPERTIES HEALTH AND SAFETY ECOLOGICAL PROPERTIES AND USE AND PERFORMANCE DATA FIELDS COVERED INCLUDE STATE ODOR COLOR AUTOIGNITION TEMPERATURE PROBABILITY OF BIODEGRADATION AND MUCH MORE RECOMMENDATIONS ARE GIVEN FOR SPECIFIC PRODUCTS PROCESSING METHODS AND MOLD MATERIALS AND AN ASSESSMENT IS GIVEN FOR EACH ADDITIVE S FEATURES AND BENEFITS CONTAINS THE MOST EXTENSIVE DATA AVAILABLE ON A LARGE NUMBER OF ANTIBLOCKING RELEASE AND SLIP ADDITIVES FOR POLYMERS FEATURES 130 DATA FIELDS FOR EACH ADDITIVE THAT ARE DIVIDED INTO GENERAL INFORMATION PHYSICAL PROPERTIES HEALTH AND SAFETY ECOLOGICAL PROPERTIES AND USE AND PERFORMANCE INCLUDES AN ASSESSMENT OF THE BENEFITS AND PROPERTIES OF EACH ADDITIVE RECOMMENDED DOSAGES AND PROCESSING METHODS

POLYMER ADDITIVE ANALYTICS 2006

COVER TO COVER READING OF PLASTICS ADDITIVES ADVANCED INDUSTRIAL ANALYSIS IS RECOMMENDED FOR BOTH PROFESSIONAL ANALYSTS AND PLASTICS TECHNOLOGISTS PROFESSOR BART S PROSE STYLE IS EASY TO READ A PROFESSIONAL BACKGROUND IN ANALYTICAL CHEMISTRY IS NOT ASSUMED PARTICULARLY VALUABLE IS THE TROVE OF GOOD ADVICE AS TO WHICH APPROACH MIGHT BE BEST IN A GIVEN SITUATION EVERY DEPARTMENT WITH A SERIOUS INTEREST IN ADDITIVE PROPERTY RELATIONS SHOULD INVEST IN A COPY PMAD NEWSLETTER THIS INDUSTRIALLY RELEVANT AND UP TO DATE RESOURCE DEALS WITH ALL ESTABLISHED AND EMERGING ANALYTICAL METHODS FOR IN POLYMER ADDITIVE ANALYSIS OF PLASTICS FORMULATIONS QUALITY ASSURANCE AND INDUSTRIAL TROUBLESHOOTING ALL BENEFIT FROM DIRECT ANALYSIS MODES PLASTICS ADDITIVES COMPRISES DETAILED COVERAGE OF SOLID STATE SPECTROSCOPY THERMAL ANALYSIS AND PYROLYSIS LASER TECHNIQUES SURFACE STUDIES AND MICROANALYSIS ALONG WITH PROCESS ANALYTICS QUANTITATIVE ANALYSIS AND MODERN METHOD DEVELOPMENT AND VALIDATION APPLIED TO ADDITIVES IN POLYMERS THE BOOK IS ORGANISED FOR QUICK AND EASY REFERENCE AND IS EXTENSIVELY ILLUSTRATED WITH OVER 200 FIGURES 300 FLOW DIAGRAMS AND TABLES TO FACILITATE RAPID UNDERSTANDING OF THIS TOPIC AND IT CONTAINS 4000 REFERENCES EMPHASIS IS ON UNDERSTANDING PRINCIPLES AND CHARACTERISTICS AND INDUSTRIAL APPLICABILITY

DATABOOK OF POLYMER PROCESSING ADDITIVES 2023-02-01

A MUST FOR EXPERTS IN INDUSTRY THIS BOOK DESCRIBES THE APPLICATION OF VIBRATIONAL FTIR UV RAMAN AND MASS SPECTROMETRIES AND OTHER INSTRUMENTAL TECHNIQUES FOR IDENTIFICATION AND STRUCTURE ELUCIDATION OF PLASTICS ADDITIVES NUMEROUS TABLES AND FIGURES COMPRESS THE STATE OF THE ART

DATABOOK OF ANTIBLOCKING, RELEASE, AND SLIP ADDITIVES 2021-01-26

THE DATABASE OF ANTIBLOCKING RELEASE AND SLIP ADDITIVES WAS DEVELOPED AS A COMPANION TO THE HANDBOOK OF ANTIBLOCKING RELEASE AND SLIP ADDITIVES AND CONTAINS THE DATA REQUIRED IN THE APPLICATION OF THESE CRITICAL ADDITIVES THE ADDITIVES ARE DIVIDED INTO TWO CATEGORIES GENERIC CHEMICAL NAME COMPOUNDS AND COMMERCIAL ADDITIVES WHICH ARE EITHER MIXTURES OF SEVERAL COMPONENTS INDUSTRIAL GRADES OF A PARTICULAR COMPOUND POLYMERIC MATERIALS OR PRODUCTS HAVING UNKNOWN COMPLEX COMPOSITION THE LARGE NUMBER OF RECORDS AND AVAILABLE DATA FIELDS MAKE THIS THE MOST COMPREHENSIVE DATABASE ON THE SUBJECT EVER AVAILABLE THE DATABASE IS DIVIDED INTO FIVE SECTIONS GENERAL INFORMATION PHYSICAL PROPERTIES HEALTH SAFETY ECOLOGICAL PROPERTIES AND USE PERFORMANCE THERE ARE 145 DATA FIELDS WHICH ACCOMMODATE A VARIETY OF DATA AVAILABLE IN SOURCE PUBLICATIONS THE DESCRIPTION OF GENERAL SECTIONS IN THE TABLE OF CONTENTS GIVES MORE DETAIL ON THE COMPOSITION OF THE INFORMATION THE DISPLAYED INFORMATION CONTAINS ADDITIVE NAME AND ITS CHEMICAL STRUCTURE IF GENERIC COMPOUND THE DATA CAN BE VIEWED ON SCREEN AND PRINTED IN PREDEFINED FORMAT

PLASTICS ADDITIVES 2006-03-15

THIS BOOK IS FOR POLYMER PLASTICS TECHNOLOGISTS IT IS A STATE OF THE ART REVIEW OF INDUSTRIAL APPLICATIONS OF POLYMER ADDITIVES WRITTEN BY WORLD LEADING AUTHORITIES THE AUTHORS HAVE WRITTEN SPECIALLY COMMISSIONED CHAPTERS WHICH COMBINE TO PROVIDE COMPREHENSIVE AND UP TO DATE COVERAGE OF THE FIELD AND A CONVENIENT ENTRY TO THE CONTEMPORARY LITERATURE COVERAGE INCLUDES ANTIOXIDANTS POLYMER STABILISERS AND STABILISATION FIRE RETARDANTS AND PLASTICS FLAMABILITY SPECIALTY ADDITIVES AND THE EMERGING FIELD OF NANOCOMPOSITES

ATLAS OF PLASTICS ADDITIVES *2012-12-06*

ADDITIVES ARE SELECTED DEPENDING ON THE TYPE OF POLYMERS TO WHICH THEY WILL BE ADDED OR THE APPLICATION FOR WHICH THEY WILL BE USED THE APPROPRIATE SELECTION OF ADDITIVES HELPS DEVELOP VALUE ADDED PLASTICS WITH IMPROVED DURABILITY AS WELL AS OTHER ADVANTAGES THIS RESEARCH BOOK PROVIDES A RANGE OF MODERN TECHNIQUES AND NEW RESEARCH ON THE USE OF ADDITIVES IN A VARIETY OF APPLICATIONS THE METHODS AND INSTRUMENTATION DESCRIBED REPRESENT MODERN ANALYTICAL TECHNIQUES USEFUL TO RESEARCHERS PRODUCT DEVELOPMENT SPECIALISTS AND QUALITY CONTROL EXPERTS IN POLYMER SYNTHESIS AND MANUFACTURING ENGINEERS POLYMER SCIENTISTS AND TECHNICIANS WILL FIND THIS VOLUME USEFUL IN SELECTING APPROACHES AND TECHNIQUES APPLICABLE TO CHARACTERIZING MOLECULAR COMPOSITIONAL RHEOLOGICAL AND THERMODYNAMIC PROPERTIES OF ELASTOMERS AND PLASTICS THE INFORMATIVE CHAPTERS ARE THE WORK OF RESEARCHERS AT THE DEPARTMENT OF POLYMERS AND COMPOSITE MATERIALS AT THE PRESTIGIOUS SEMENOV INSTITUTE OF CHEMICAL PHYSICS OF RUSSIAN ACADEMY OF SCIENCES

POLYMER ADDITIVES: GUIDEBOOK AND DIRECTORY *1972*

THIS BOOK DEALS WITH THE MOST IMPORTANT SUBSTANCES USED AS ADDITIVES IN THE PLASTICS INDUSTRY TO IMPROVE THE PROPERTIES OF POLYMER BASED MATERIALS EACH CHAPTER DEALS WITH A PARTICULAR TYPE OF ADDITIVE BASED ON THE TYPE S DEFINITION STRUCTURE AND CLASSIFICATION ACCORDING TO MAIN EFFECTS ON POLYMERIC MATERIALS THE MECHANISM OF THE ADDITIVE EFFICIENCY AND ITS EFFECTS ON BASIC PROPERTIES OF SPECIFIC POLYMERS ARE DISCUSSED AND A SURVEY OF ITS IMPORTANT QUALITIES AND PRACTICAL APPLICATIONS IS GIVEN EACH CHAPTER IS INTRODUCED BY A THEORETICAL ANALYSIS OF THE PRACTICAL AND TECHNOLOGICAL IMPORTANCE OF THE ADDITIVE THE BOOK IS MAINLY INTENDED FOR STUDENTS IN TECHNICAL COLLEGES POLYTECHNICS AND UNIVERSITIES WHO ARE STUDYING PLASTICS TECHNOLOGY AND MACROMOLECULAR CHEMISTRY AS PART OF THEIR GENERAL CURRICULUM AND FOR TECHNOLOGISTS IN INDUSTRY ENGAGED IN DEVELOPMENT SALES TECHNICAL SERVICE AND PRODUCTION FUNCTIONS AND APPLICATIONS OF PLASTICS AN ELEMENTARY KNOWLEDGE OF CHEMISTRY PHYSICAL CHEMISTRY AND POLYMER SCIENCE AT THE TECHNICAL COLLEGE LEVEL IS ASSUMED PRAGUE AND MONTREAL DECEMBER 1982 J STEPEK H DAoust TABLE OF CONTENTS INTRODUCTION

DATABASE OF ANTIBLOCKING, RELEASE AND SLIP ADDITIVES *2005-01-15*

OUTLINES THE BENEFITS OF USING ADDITIVES INDIVIDUALLY OR IN COMBINATION TO MODIFY THE PROPERTIES AND PROCESSABILITY OF PURE POLYMERS AND DISCUSSES EASY TO UNDERSTAND THEORY AND PRACTICAL APPLICATIONS FOR IMMEDIATE ECONOMIC AND PERFORMANCE IMPROVEMENTS

CHEMISTRY AND TECHNOLOGY OF POLYMER ADDITIVES *1999-05-11*

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 STIFTINGER 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

ADDITIVES IN POLYMERS *2016-01-05*

ENCYCLOPEDIA OF POLYMER AND RUBBER ADDITIVES DOCUMENTS HOW POLYMER PROPERTIES AND PERFORMANCE CAN BE IMPROVED THROUGH THE USE OF ADDITIVES RESULTING IN ENHANCED PHYSICAL PROPERTIES STABILITY IMPROVED PROCESS AND ASSEMBLY EXTENDED SHELF LIFE ENHANCED PURITY AND MINIMIZED ENVIRONMENTAL IMPACT 88 GROUPS OF ADDITIVES USED BY ALL SEGMENTS OF THE POLYMER AND RUBBER INDUSTRIES ARE INCLUDED WITH EACH GROUP DISCUSSED IN A SYSTEMATIC MANNER IN ORDER TO FACILITATE EASY INFORMATION RETRIEVAL AND COMPARISON TYPICAL CHEMICAL STRUCTURES MECHANISMS OF ACTION INFLUENCES AND INTERFERENCES IN COMPLEX FORMULATIONS AND EVIDENCE OF PERFORMANCE FROM EXPERIMENTAL STUDIES ARE EACH FEATURED WITH FREQUENT REFERENCES TO MONOGRAPHIC SOURCES FOR EVEN MORE IN DEPTH KNOWLEDGE OF THE SUBJECT THE COMPANION VOLUME DATABOOK OF THE MOST IMPORTANT POLYMER AND RUBBER ADDITIVES IS ALSO AVAILABLE IT CONTAINS ROBUST TECHNICAL DATA ON THE MOST ESSENTIAL ADDITIVES CURRENTLY IN USE AND THE TWO BOOKS ARE MUST HAVE REFERENCES FOR ANYONE WORKING WITH RUBBERS AND PLASTICS PROVIDES A COMPLETE SET OF TABLES CLASSIFICATIONS AND INFORMATION RELATED TO A WIDE VARIETY OF COMMERCIALY USED ADDITIVES FOR POLYMERS AND RUBBERS DETAILS THE CHARACTERISTICS OF HUNDREDS OF ADDITIVES THAT CAN IMPROVE PERFORMANCE OF PHYSICAL PROPERTIES STABILITY AND STORAGE LIFE PROVIDE COLORANTS REDUCE COSTS ENHANCE PURITY AND MINIMIZE ENVIRONMENTAL IMPACT

FACILITATES INFORMATION RETRIEVAL AND COMPARISON DISCUSSING MECHANISMS OF ACTION SUITABLE FEATURES MODIFICATIONS EVIDENCE OF PERFORMANCE FROM EXPERIMENTAL STUDIES AND MORE

ADDITIVES FOR PLASTICS 2012-12-06

THIS IS AN INVALUABLE RESOURCE OF STATE OF THE ART REVIEWS ON SPECIALTY POLYMER ADDITIVES FOR POLYMER SCIENTISTS TECHNOLOGISTS CHEMISTS AND ENGINEERS THE BOOK PROVIDES A DEFINITIVE REFERENCE OF THE PRINCIPLES AND INDUSTRIAL APPLICATIONS OF SPECIALTY POLYMER ADDITIVES WRITTEN BY WORLD LEADING AUTHORITIES IN THE FIELD THE AUTHORS WERE COMMISSIONED TO WRITE COMPREHENSIVE AND UP TO DATE REVIEW CHAPTERS WITH THE AIM OF PROVIDING A CONVENIENT ENTRY TO THE CONTEMPORARY PRIMARY LITERATURE COVERAGE INCLUDES SYNTHETIC AND BIOLOGICAL ANTIOXIDANTS POLYMER STABILISERS AND STABILISATION PLASTICS FLAMMABILITY AND FIRE RETARDANTS NANOCOMPOSITES PHOSPHORESCENT ADDITIVES

POLYMER MODIFIERS AND ADDITIVES 2000-11-08

THIS SECOND EDITION DESCRIBES ALMOST 4 000 PLASTICS ADDITIVES WHICH ARE CURRENTLY AVAILABLE TO INDUSTRY IT IS THE RESULT OF INFORMATION RECEIVED FROM 164 INDUSTRIAL COMPANIES AND OTHER ORGANIZATIONS THE DATA REPRESENT SELECTIONS FROM MANUFACTURER S DESCRIPTIONS

MASS SPECTROMETRY OF POLYMERS – NEW TECHNIQUES 2012-01-25

THIS BOOK IS DESIGNED AS A PRACTICAL TEXT FOR USE IN THE LABORATORIES OF THE PLASTIC PRODUCER AND USER INDUSTRIES AND BY OTHERS SUCH AS UNIVERSITIES AND INSTITUTIONS WHO ARE CONCERNED WITH PROBLEMS ASSOCIATED WITH ADDITIVES AND ADVENTITIOUS IMPURITIES IN POLYMERS FOR EXAMPLE POWERFUL NEW ANALYTICAL TOOLS HAVE BEEN MADE AVAILABLE TO THE CHEMIST BY A COMBINATION OF VARIOUS CHROMATOGRAPHIC TECHNIQUES WITH METHODS OF IDENTIFYING SEPARATED ADDITIVES AND THEIR DEGRADATION PRODUCTS BY TECHNIQUES BASED ON INFRARED AND MASS SPECTROMETRY IN PARTICULAR SUPERCRITICAL FLUID CHROMATOGRAPHY COMBINED WITH M

ENCYCLOPEDIA OF POLYMER AND RUBBER ADDITIVES 2024-01-03

DATABOOK OF ADHESION PROMOTERS SECOND EDITION CONTAINS DATA ON THE MOST IMPORTANT ADHESION PROMOTER PRODUCTS IN USE TODAY INFORMATION ON EACH ADHESION PROMOTER IS DIVIDED INTO FIVE SECTIONS GENERAL INFORMATION PHYSICAL PROPERTIES HEALTH AND SAFETY ECOLOGICAL PROPERTIES AND USE AND PERFORMANCE THE PREVIOUS EDITION OF THIS BOOK WAS MOSTLY RELATED TO SILANES BUT MANY NEW ADDITIVES HAVE BEEN INTRODUCED TO THE MARKET MANY NOT BASED ON SILANES BUT ON ONE OF 37 CHEMICAL GROUPS OF CHEMICAL COMPOUNDS NEEDED FOR A VARIETY OF PRODUCTS IN WHICH SILANES DO NOT FUNCTION ARE TOO EXPENSIVE OR BETTER PERFORMANCE CAN BE ACHIEVED WITH THESE NEW ADDITIVES THE YEARS THAT HAVE PASSED SINCE PUBLICATION OF THE FIRST EDITION HAVE ALSO HAD A SIGNIFICANT IMPACT ON SOURCING AND SELECTION OF ADHESION PROMOTERS FOR DIFFERENT TASKS DUE TO MERGERS AND ACQUISITIONS MANY ADDITIVES ARE NO LONGER IN USE BECAUSE OF SCIENTIFIC DEVELOPMENTS MORE PRODUCTS ARE BASED ON RENEWABLE RESOURCES AND SELECTED FROM LESS TOXIC ORIGINS THERE IS ALSO A CLEAR TENDENCY TO LIMIT THE SCOPE OF APPLICATION WHICH CAN LEAD TO MANY PRODUCTS BEING DESIGNED FOR SPECIALIZED FREQUENTLY SINGLE PRODUCT APPLICATIONS PROVIDES DETAILED UP TO DATE ESSENTIAL DATA ON THE MOST IMPORTANT PRODUCTS CURRENTLY IN USE COVERS GENERAL INFORMATION PHYSICAL CHEMICAL PROPERTIES HEALTH AND SAFETY ECOLOGICAL PROPERTIES AND USE AND PERFORMANCE INCLUDES RECOMMENDATIONS FOR SPECIFIC POLYMERS PRODUCTS APPLICATIONS PROCESSING METHODS AND THE CONCENTRATION USED

SPECIALTY POLYMER ADDITIVES 2001-08-15

INTERNATIONAL SERIES IN ANALYTICAL CHEMISTRY VOLUME 46 CHEMICAL ANALYSIS OF ADDITIVES IN PLASTICS SECOND EDITION BRINGS TOGETHER NUMEROUS INVESTIGATIONS ON THE CHARACTERIZATION IDENTIFICATION AND DETERMINATION OF VARIOUS TYPES OF ADDITIVES IN PLASTICS THIS BOOK IS DIVIDED INTO FIVE CHAPTERS CHAPTERS 1 AND 2 DESCRIBE FIRST THE METHODS FOR EXAMINING ADDITIVES PRESENT IN POLYMERS BASED ON EITHER DIRECT SPECTROSCOPY OF A CAST POLYMER FILM OR ON SOLVENT EXTRACTION OF TOTAL ADDITIVES FROM THE POLYMER FOLLOWED BY QUANTITATIVE CHEMICAL OR PHYSICAL ANALYSIS FOR VARIOUS COMPONENTS IN THE EXTRACT CHAPTER 3 DISCUSSES THE APPLICATION OF THIN LAYER AND COLUMN CHROMATOGRAPHY TO THE SEPARATION AND DETERMINATION OF KNOWN ADDITIVES CHAPTERS 4 AND 5 EXAMINE THE APPLICATION OF COMBINED CHROMATOGRAPHIC AND SPECTROSCOPIC TECHNIQUES FOR THE SEPARATION AND DETERMINATION OF UNKNOWN PLASTICS ADDITIVES THIS BOOK WILL PROVE USEFUL TO PLASTICS MANUFACTURERS RESEARCHERS INSTITUTIONS AND

UNIVERSITIES

PLASTICS ADDITIVES *1993-01-01*

BOTH TECHNICALLY AND ECONOMICALLY ADDITIVES FORM A LARGE AND INCREASINGLY SIGNIFICANT PART OF THE POLYMER INDUSTRY BOTH PLASTICS AND ELASTOMERS SINCE THE FIRST EDITION OF THIS BOOK WAS PUBLISHED THERE HAVE BEEN WIDE RANGING DEVELOPMENTS COVERING CHEMISTRY AND FORMULATION OF NEW AND MORE EFFICIENT ADDITIVE SYSTEMS AND THE SAFER USE OF ADDITIVES BOTH BY PROCESSORS IN THE FACTORY AND IN THE WIDER FIELD AS THEY AFFECT THE GENERAL PUBLIC THIS NEW EDITION FOLLOWS THE SUCCESSFUL FORMULA OF ITS PREDECESSOR IT PROVIDES A COMPREHENSIVE VIEW OF ALL TYPES OF ADDITIVES CONCENTRATING MAINLY ON THEIR TECHNICAL ASPECTS CHEMISTRY FORMULATION STRUCTURE FUNCTION MAIN APPLICATIONS WITH NOTES ON THE COMMERCIAL BACKGROUND OF EACH THE FIELD HAS BEEN EXPANDED TO INCLUDE ANY SUBSTANCE THAT IS ADDED TO A POLYMER TO IMPROVE ITS USE SO INCLUDING REINFORCING MATERIALS SUCH AS GLASS FIBRE CARBON BLACK AND TITANIUM DIOXIDE THIS IS A BOOK WHICH HAS BEEN PLANNED FOR EASE OF USE AND THE INFORMATION IS PRESENTED IN A WAY WHICH IS APPROPRIATE TO THE USERS NEEDS

DETERMINATION OF ADDITIVES IN POLYMERS AND RUBBERS *2007*

THE SYMPOSIUM ON THE INFLUENCE OF POLYMER ADDITIVES ON VELOCITY AND TEMPERATURE FIELDS WAS PROPOSED TO THE GENERAL ASSEMBLY OF THE INTERNATIONAL UNION OF THEORETICAL AND APPLIED MECHANICS IUTAM BY THE GESELLSCHAFT FÜR ANGEWANDTE MATHEMATIK UND MECHANIK GAMM THE SYMPOSIUM WAS HELD UNDER THE AUSPICES OF IUTAM IN ASSOCIATION WITH THE DEUTSCHE RHEOLOGISCHE GESELLSCHAFT DRG WITH RESPONSIBILITY FOR THE ORGANIZATION LYING WITH B. GAMPERT UNIVERSITÄT GIESSEN THE MAIN AIM OF THIS IUTAM SYMPOSIUM WAS TO CONSIDER THE FUNDAMENTAL ASPECTS OF THE PHENOMENA THAT OCCUR WHEN SMALL AMOUNTS OF POLYMERS ARE ADDED TO TURBULENT FLOWS TURBULENT DRAG REDUCTION AND LAMINAR POROUS MEDIA FLOWS IN PARTICULAR ATTENTION WAS DEVOTED TO THE INFLUENCE OF MOLECULAR PARAMETERS OF THE POLYMERS AND SOLUTION PROPERTIES ESPECIALLY THE ELONGATIONAL VISCOSITY ON TURBULENT FLOW AND LAMINAR POROUS MEDIA FLOW THE INFLUENCE OF POLYMERS ON THE TURBULENCE STRUCTURE IN POLYMER DRAG REDUCTION

DATABOOK OF ADHESION PROMOTERS *2023-01-31*

DESCRIBES TWENTY ONE OF THE MOST IMPORTANT AND COMMONLY USED ADDITIVES A CONCISE INTRODUCTION TO ADDITIVES FOR THERMOPLASTIC POLYMERS FOCUSES ON ADDITIVES FOR THERMOPLASTIC POLYMERS AND DESCRIBES 21 OF THE MOST IMPORTANT AND COMMONLY USED ADDITIVES FROM PLASTICIZERS AND FILLERS TO OPTICAL BRIGHTENERS AND ANTI MICROBIAL ADDITIVES IT ALSO INCLUDES CHAPTERS ON SAFETY AND HAZARDS AND PREDICTION OF SERVICE TIME MODELS WHILE THERE ARE MANY EXHAUSTIVE AND COMPLEX BOOKS DEALING WITH ADDITIVES FOR POLYMERS THE SIZE OF THEM DETERMINES STUDENTS AND MANY INDUSTRY ENGINEERS FROM USING THEM THE PURPOSE OF THIS BOOK THEREFORE IS TO FILL THIS VOID AND PRESENT A CONCISE INTRODUCTION TO THIS IMPORTANT SUBJECT WRITTEN IN AN ACCESSIBLE AND PRACTICAL STYLE THE AUTHOR INTRODUCES THE READER TO THE COMPLEX SUBJECT OF PLASTICS ADDITIVES IN AN ENGAGING MANNER HIS ABILITY TO BE CONCISE IS THE RESULT OF HIS TEACHING COURSES ON THE SUBJECT AND USING HIS OWN LECTURE NOTES FOR MATERIAL THIS BOOK COMPRISES THE AUTHOR'S COURSE NOTES SO THAT A LARGER PUBLIC CAN BENEFIT FROM HIS KNOWLEDGE A CONCISE INTRODUCTION TO ADDITIVES FOR THERMOPLASTIC POLYMERS IS THE IDEAL PRIMER FOR STUDENTS WHO WILL LATER WORK IN POLYMER SCIENCE OR THE DEVELOPMENT OF PLASTICS FORMULATION AS WELL AS INDUSTRY ENGINEERS AND SPECIALISTS WHO WANT TO HAVE A DEEPER KNOWLEDGE OF THE PLASTICS INDUSTRY

CHEMICAL ANALYSIS OF ADDITIVES IN PLASTICS *2016-07-29*

A THOROUGH REVIEW OF POLYMER ADDITIVES FOR DETERGENTS CHEMISTRY FORMULATION TESTING MECHANISMS PERFORMANCE APPLICATIONS AND SAFETY CONCERNS NEW DEVELOPMENTS IN ALL THESE AREAS ARE INCLUDED EXTENSIVE REFERENCE DATA INCLUDED

ADDITIVES FOR PLASTICS HANDBOOK *2001-11-22*

ADDITIVES FOR POLYOLEFINS IS A UNIQUE QUICK REFERENCE RESOURCE FOR THOSE WHO CREATE OR USE POLYETHYLENE AND POLYPROPYLENE COMPOUNDS THE MOST COMMERCIALY IMPORTANT FAMILY OF PLASTIC MATERIALS MAKING UP CLOSE TO HALF OF THE VOLUME ALL PLASTICS PRODUCED AND USED THESE POLYMERS WOULD BE USELESS WITHOUT VARIOUS ADDITIVES THE BOOK FOCUSES ON POLYOLEFIN ADDITIVES THAT ARE CURRENTLY IMPORTANT IN THE PLASTICS INDUSTRY ALONGSIDE NEW ADDITIVES OF INCREASING INTEREST SUCH AS NANOFILLERS AND ENVIRONMENTALLY SUSTAINABLE MATERIALS AS MUCH AS POSSIBLE EACH CHAPTER EMPHASISES THE PERFORMANCE OF THE

ADDITIVES IN THE POLYMER AND THE VALUE EACH RELEVANT ADDITIVE BRINGS TO POLYPROPYLENE OR POLYETHYLENE WHERE POSSIBLE SIMILAR ADDITIVES ARE COMPARED BY CAPABILITY AND RELATIVE COST IN THIS NEW EDITION PRODUCT TABLES HAVE BEEN UPDATED WITH THE MOST CURRENT PRODUCT AND COMPANY NAMES NEW CASE STUDIES HAVE BEEN ADDED THE ROLE OF NANOFILLERS IS DISCUSSED IN GREATER DETAIL AND THE BOOK CONCLUDES WITH A DISCUSSION ON BLENDING AND HANDLING ADDITIVES ALONG WITH AN ENTIRELY NEW CHAPTER ON HOW ENGINEERS CAN APPROACH THE ISSUE OF SUSTAINABILITY WHEN CHOOSING AN ADDITIVE ASSESSES CAPABILITIES AND COSTS OF A RANGE OF ADDITIVES TO ENABLE ENGINEERS AND SCIENTISTS TO MAKE THE CORRECT SELECTION FOR THEIR PROPERTY REQUIREMENTS PROVIDES CONCISE PRACTICAL INFORMATION ABOUT THE PURPOSE AND USE OF SPECIFIC ADDITIVES FILLERS AND REINFORCEMENTS DEMYSTIFYING THE WORLD OF ADDITIVES BY PROVIDING CLEAR ENGINEERING EXPLANATIONS AND INCLUDING REAL WORLD APPLICATION CASE STORIES UPDATED TO INCLUDE ADDITIONAL MATERIAL ON NANOFILLERS BLENDING AND HANDLING AND SUSTAINABILITY

THE INFLUENCE OF POLYMER ADDITIVES ON VELOCITY AND TEMPERATURE FIELDS 2012-12-06

IN RECENT YEARS THE APPLICATIONS OF FLUOROPOLYMER ADDITIVES HAVE EXPANDED SIGNIFICANTLY WITH EVEN THE MEANING OF FLUOROPOLYMER ADDITIVES EXPANDING FROM RELATIVELY THE NARROW DEFINITION OF PTFE POWDER FILLERS TO A WIDE VARIETY OF FLUOROPOLYMER ELASTOMERS USED AS A PROCESSING AID FOR PLASTICS PROCESSING SUCH AS EXTRUSION INJECTION MOLDING AND FILM BLOWING THE BENEFITS OF FLUOROPOLYMER ADDITIVES USED IN PLASTICS ARE THE ELIMINATION OF SHARKSKIN DEFECTS INCREASES IN PROCESS SPEED AND OUTPUT UP TO 20 THE REDUCTION OF DIE BUILD UP THE REDUCTION OF GELS AND OPTICAL DEFECTS ETC IN ADDITION FLUOROPOLYMER ADDITIVES ARE BEING INCREASINGLY USED IN INKS LUBRICANTS AND COATINGS FOR EXAMPLE IN THE COATING INDUSTRY FLUOROPOLYMER ADDITIVES CAN INCREASE THE LIFE CYCLE OF EXTERIOR COATINGS DUE TO THEIR EXCELLENT WEATHERABILITY AND SUBSEQUENTLY INCREASE THE TIME BETWEEN RECOATS ENGINEERS AND SCIENTIST INVOLVED IN POLYMER PROCESSING NEED PRACTICAL INFORMATION ABOUT THESE ADDITIVES THEIR APPLICATIONS AND PROPER AND SAFE HANDLING UNTIL NOW MUCH OF THIS INFORMATION HAS BEEN DIFFICULT TO OBTAIN BECAUSE OF COMMERCIAL SECRECY EXISTING BOOKS ON POLYMER ADDITIVES ONLY INCLUDE THE BRIEFEST OF COVERAGE OF FLUOROPOLYMER ADDITIVES IN THIS FIRST BOOK ON AN ADDITIVE GROUP OF GROWING IMPORTANCE THE AUTHORS REVIEW THE COMMERCIAL ADDITIVES AVAILABLE ON THE MARKET THE APPLICATIONS CHAPTERS PROVIDE READERS WITH A STEP BY STEP DESCRIPTION OF TECHNIQUES TO SELECT AND INCORPORATE THESE ADDITIVES IN VARIOUS PRODUCTS UNIQUE FEATURES AND BENEFITS FLUOROPOLYMER ADDITIVES ARE BECOMING MORE WIDELY USED WITH KEY APPLICATIONS INCLUDING USE AS A POLYMER PROCESSING AID INCREASING SPEED AND REDUCING FAULTS AND AS AN ADDITIVE TO LUBRICANTS INKS AND COATINGS THIS BOOK IS THE ONLY PRACTICAL GUIDE AVAILABLE TO THE SELECTION AND USE OF FLUOROPOLYMER ADDITIVES AND WILL HELP READERS TO OPTIMIZE EXISTING FLUOROPOLYMER APPLICATIONS AND IMPLEMENT NEW ONES FLUOROPOLYMERS ARE KNOWN AS AN AREA WHERE DETAILED INFORMATION IS HARD TO COME BY IN THIS BOOK TWO FORMER DUPONT EMPLOYEES PROVIDE A WIDE RANGE OF INDUSTRY SECTORS WITH THE ESSENTIAL PRACTICAL INFORMATION AND DATA THEY NEED TO REALIZE THE FULL BENEFITS OF FLUOROPOLYMER ADDITIVES WRITTEN FOR PRACTICING ENGINEERS EBNESAJJAD AND MORGAN TAKE A HIGHLY PRACTICAL APPROACH TO THE SUBJECT BASED ON REAL WORLD EXPERIENCE AND CASE STUDIES

A CONCISE INTRODUCTION TO ADDITIVES FOR THERMOPLASTIC POLYMERS 2010-01-05

ADDITIVE MIGRATION FROM PLASTICS INTO FOOD EXAMINES THE INTRUSION OF FOREIGN CHEMICALS INTO FOOD VIA ADDITIVES PRESENT IN PLASTICS PACKAGING AND THE TOXIC HAZARDS THEY POSE TO CONSUMERS THIS BOOK SHOWS HOW DIRECT CONTACT BETWEEN THE PACKED COMMODITY AND THE PLASTIC IS LIKELY TO RESULT IN THE TRANSFER OF POLYMER ADDITIVES ADVENTITIOUS IMPURITIES SUCH AS MONOMERS CATALYST REMNANTS AND RESIDUAL POLYMERIZATION SOLVENTS AND LOW MOLECULAR WEIGHT POLYMER FRACTIONS FROM THE PLASTIC INTO THE PACKAGED MATERIAL THIS BOOK IS COMPRISED OF NINE CHAPTERS AND BEGINS WITH A DISCUSSION ON THE VARIOUS TYPES OF PLASTICS USED IN FOOD PACKAGING AS WELL AS THE TYPES OF SUBSTANCES PRESENT IN THE PLASTIC THAT MIGHT MIGRATE INTO THE FOOD SUBSEQUENT CHAPTERS REVIEW WORLD LITERATURE ON EXTRACTION TESTING AND THE ANALYSIS OF EXTRACTANTS THE DETERMINATION OF VARIOUS TYPES OF POLYMER ADDITIVES AND RESIDUAL MONOMERS IN EXTRACTANTS OF LIQUID FOODSTUFFS AND BEVERAGES SOLID FOODS EDIBLE OILS AND FATTY FOODSTUFFS IS CONSIDERED THE FINAL CHAPTER LOOKS AT THE LEGAL REQUIREMENTS CONCERNING THE USE OF ADDITIVES IN FOOD GRADE PLASTICS IN VARIOUS COUNTRIES THIS MONOGRAPH WILL BE OF INTEREST TO THOSE IN THE PLASTICS INDUSTRY FOOD AND BEVERAGE PACKAGING INDUSTRY AND LARGE RETAIL OUTLETS SUCH AS SUPERMARKETS ALONG WITH MEDICAL AND PUBLIC HEALTH OFFICIALS LEGISLATORS ENVIRONMENTALISTS AND THE GENERAL PUBLIC

POLYMERIC ADDITIVES FOR HIGH PERFORMING DETERGENTS 1994-12-27

THIS VOLUME FOCUSES ON THE DYNAMICAL BEHAVIOUR OF LOW MOLECULAR ADDITIVES IN SOLID POLYMER MATRIXES IT COVERS TYPES AND MODELS OF MOLECULAR MOTION IN CONDENSED MEDIA DEPENDENCE OF MOTIONAL FREQUENCY ON PARTICLE STRUCTURE AND SIZE TEMPERATURE VOLUME AND STRESS AND POLYMER PROPERTIES AND POLYMERIC STRUCTURES EXTENSIVE ANALYSIS OF COMMON REGULARITIES OF ROTATIONAL AND TRANSLATIONAL DYNAMICS OF MOLECULES INTRODUCED INTO POLYMERS ARE GIVEN THE BOOK ALSO INCLUDES EXPERIMENTAL TECHNIQUES FOR MOLECULAR MOBILITY EVALUATION AND FEATURES DETAILED DATA ON ROTATIONAL DYNAMICS OF ADDITIVES IT SHOULD BE OF INTEREST TO SPECIALISTS IN VARIOUS FIELDS OF POLYMER PHYSICAL CHEMISTRY AND MATERIALS SCIENCE

ADDITIVES FOR POLYOLEFINS *2015-03-17*

PLASTICS ADDITIVES AND TESTING IS A PRACTICAL BOOK FOR ENGINEERS AND OPERATORS AND DISCUSSES BOTH INORGANIC AND ORGANIC CHEMICALS THAT ARE WIDELY USED AS ADDITIVES IN PLASTICS PROCESSING OPERATIONS IT IS COMMON PRACTICE TODAY TO USE ANALYTICAL TECHNIQUES TO IMPROVE PLASTICS PROCESSING BECAUSE IT IS CRITICALLY IMPORTANT TO MANUFACTURE QUALITY PRODUCTS A REASONABLE BALANCE MUST BE DRAWN BETWEEN CONTROL REQUIREMENTS AND PARAMETERS FOR IMPROVED PROCESSING METHOD WITH RESPECT TO PLASTICS ADDITIVES THIS BOOK SERVES TO IMPLEMENT THIS BALANCE IN THE MANUFACTURING LINE WRITTEN BY A SUCCESSFUL INTERNATIONAL CONSULTANT WITH AN EXCELLENT PUBLISHING TRACK RECORD IT COMBINES PLASTICS ADDITIVES TESTING AND QUALITY CONTROL AND IS A VALUABLE AND CRITICAL BOOK FOR ENGINEERS AND OPERATORS TO HAVE WHEN PERFORMING THEIR TASKS

FLUOROPOLYMER ADDITIVES *2011-12-16*

POLYMERS AND ADDITIVES IN EXTREME ENVIRONMENTS UNIQUELY CATALOGS POLYMERS AND ADDITIVES FOR USES IN EXTREME APPLICATIONS SUCH AS IN HIGH OR LOW PRESSURE HIGH OR LOW TEMPERATURE DEEP WATER AND OTHER SPECIAL APPLICATIONS THE BOOK INCLUDES CHAPTERS ON AQUEOUS ENVIRONMENTS INCLUDING POLYMERIC MEMBRANES FOR WATER PURIFICATION AND WASTEWATER TREATMENT EXTREME PRESSURE ENVIRONMENTS SUCH AS OILS AND LUBRICANTS FOR COMBUSTION ENGINES AS WELL AS MATERIALS USED FOR DEEP DRILLING SUCH AS SURFACTANTS SCALE INHIBITORS FOAMING AGENTS DEFOAMERS PROPELLANTS FRACTURING FLUIDS EXTREME TEMPERATURES IS SUBDIVIDED IN HIGH AND LOW TEMPERATURE APPLICATIONS INCLUDING GASKETING MATERIALS FUEL TANK SEALANTS EXPULSION BLADDERS FUEL CELL MATERIALS AND ON THE OTHER HAND COLD WEATHER ARTICLES AND THERMOREGULATORY TEXTILES ELECTRICAL APPLICATIONS INCLUDE SOLAR CELL DEVICES TRIBOELECTRIC GENERATORS FUEL CELL APPLICATIONS ELECTROCHROMIC MATERIALS AND BATTERIES MEDICAL APPLICATIONS INCLUDE POLYMERS FOR CONTACT LENSES MATERIALS FOR TISSUE ENGINEERING SOPHISTICATED DRUG DELIVERY SYSTEMS AEROSPACE APPLICATIONS INCLUDE OUTER SPACE APPLICATIONS SUCH AS LOW TEMPERATURE AND PRESSURE ALSO COSMIC RAYS OUTGASSING AND ATOMIC EROSION AS WELL AS MATERIALS FOR ELECTROSTATIC DISSIPATIVE COATINGS AND SPACE SUITS A FINAL CHAPTER DETAILING MATERIALS THAT ARE USED IN OTHER EXTREME ENVIRONMENTS SUCH AS ADHESIVES AND POLYMERIC CONCRETE MATERIALS AUDIENCE MATERIALS AND POLYMER SCIENTISTS WORKING IN MANUFACTURING AND PLASTICS CIVIL AND MECHANICAL ENGINEERS IN VARIOUS INDUSTRIES SUCH AS AUTOMOTIVE AIRCRAFT SPACE MARINE AND SHIPPING ELECTRONICS CONSTRUCTION ELECTRICAL ETC WILL FIND THIS BOOK ESSENTIAL THE BOOK WILL ALSO SERVE THE NEEDS OF ENGINEERS AND SPECIALISTS WHO HAVE ONLY A PASSING CONTACT WITH POLYMERS AND ADDITIVES IN INDUSTRIAL SETTING NEED TO KNOW MORE

ADDITIVE MIGRATION FROM PLASTICS INTO FOOD 2013-10-22

THIS VOLUME FOCUSES ON THE DYNAMICAL BEHAVIOUR OF LOW MOLECULAR ADDITIVES IN SOLID POLYMER MATRIXES IT COVERS TYPES AND MODELS OF MOLECULAR MOTION IN CONDENSED MEDIA DEPENDENCE OF MOTIONAL FREQUENCY ON PARTICLE STRUCTURE AND SIZE TEMPERATURE VOLUME AND STRESS AND POLYMER PROPERTIES AND POLYMERIC STRUCTURES EXTENSIVE ANALYSIS OF COMMON REGULARITIES OF ROTATIONAL AND TRANSLATIONAL DYNAMICS OF MOLECULES INTRODUCED INTO POLYMERS ARE GIVEN THE BOOK ALSO INCLUDES EXPERIMENTAL TECHNIQUES FOR MOLECULAR MOBILITY EVALUATION AND FEATURES DETAILED DATA ON ROTATIONAL DYNAMICS OF ADDITIVES IT SHOULD BE OF INTEREST TO SPECIALISTS IN VARIOUS FIELDS OF POLYMER PHYSICAL CHEMISTRY AND MATERIALS SCIENCE

MOLECULAR DYNAMICS OF ADDITIVES IN POLYMERS *2023-01-27*

ADDITIVES ARE SELECTED DEPENDING ON THE TYPE OF POLYMERS TO WHICH THEY WILL BE ADDED OR THE APPLICATION FOR WHICH THEY WILL BE USED THE APPROPRIATE SELECTION OF ADDITIVES HELPS DEVELOP VALUE ADDED PLASTICS WITH IMPROVED DURABILITY AS WELL AS OTHER ADVANTAGES THIS RESEARCH BOOK PROVIDES A RANGE OF MODERN TECHNIQUES AND NEW RESEARCH ON THE USE OF ADDITIVES IN A VARIETY OF APPLICATIONS THE METHODS AND INSTRUMENTATION DESCRIBED REPRESENT MODERN ANALYTICAL TECHNIQUES USEFUL TO RESEARCHERS PRODUCT DEVELOPMENT SPECIALISTS AND QUALITY CONTROL EXPERTS IN POLYMER SYNTHESIS AND MANUFACTURING ENGINEERS POLYMER SCIENTISTS AND TECHNICIANS WILL FIND THIS VOLUME USEFUL IN SELECTING APPROACHES AND TECHNIQUES APPLICABLE TO CHARACTERIZING MOLECULAR COMPOSITIONAL RHEOLOGICAL AND THERMODYNAMIC PROPERTIES OF ELASTOMERS AND PLASTICS THE INFORMATIVE CHAPTERS ARE THE WORK OF RESEARCHERS AT THE DEPARTMENT OF POLYMERS AND COMPOSITE MATERIALS AT THE PRESTIGIOUS SEMENOV INSTITUTE OF CHEMICAL PHYSICS OF RUSSIAN ACADEMY OF SCIENCES

PLASTICS ADDITIVES AND TESTING *2013-04-12*

POLYMERS AND ADDITIVES IN EXTREME ENVIRONMENTS *2021-09-08*

THE INFLUENCE OF POLYMER ADDITIVES ON VELOCITY AND TEMPERATURE FIELDS *1984*

MOLECULAR DYNAMICS OF ADDITIVES IN POLYMERS *1997*

ADDITIVES IN POLYMERS *2015-08-30*

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