

## **Additives For Solvent Free Epoxy Floor Coatings Kusumoto**

Ethylene Glycols—Advances in Research and Application: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Chloral Hydrate. The editors have built Ethylene Glycols—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Chloral Hydrate in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Ethylene Glycols—Advances in Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Unmodified, epoxy resins cause certain problems for both the adhesive formulator and end-user. They are often rigid and brittle; hence, impact resistance and peel strength are poor. For decades, Chemist have been vigorously working to minimize these major shortcomings. Based on a popular course sponsored by the Society of Plastics Engineers and written by an authority in the field, this comprehensive text presents a variety of methods to accomplish what up to now has been a formidable task. Beginning with epoxy chemistry, moving on to fillers, filler treatments, and surfactants, and ending with current and future development in formulating Epoxy Adhesives, this rigorous text addressed the problem of

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improving flexibility, durability and strength by adding chemical groups to the epoxy structure either via the base resin or the curing agent or by adding separate flexibilizing resins to the formulation to create an epoxy-hybrid adhesive.

### UNDERWATER INSPECTION AND REPAIR FOR

OFFSHORE STRUCTURES Benefit from a much-needed, up-to-date handbook on underwater inspection and repair processes and technologies Underwater Inspection and Repair for Offshore Structures fills a gap in the literature to provide an overview of the inspection and repair processes for both steel and concrete offshore structures. Authors and noted experts on the topic John V. Sharp and Gerhard Esdal guide readers through the reasons why inspection and repair are performed and how both are linked to the management of structural integrity, statutory requirements, and various types of damage. The book addresses critical topics, including the execution and planning of inspection and repair, the tools and methods used, and their deployment underwater. The authors put particular focus on steel and concrete offshore oil and gas installations, but the content is also applicable to the substructures of offshore wind turbines. Underwater Inspection and Repair for Offshore Structures is complementary to the authors' book Ageing and Life Extension of Offshore Structures, also from Wiley. This important book: Covers current inspection and monitoring techniques to evaluate existing structures Includes coverage of robotic (ROV) inspection and repair methods Provides an overview of repair and maintenance techniques applicable to the splash?zone and underwater operations Written for engineers, designers, and safety auditors working with offshore structures. Underwater Inspection and Repair for Offshore Structures is a comprehensive resource for understanding how to effectively inspect and repair these vulnerable structures.

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Interest in solvent-free adhesives is increasing because of environmental concerns about the use of solvent containing adhesives and the subsequent need to decrease or eliminate solvent use. In this report adhesives are classified by the type of chemistry of the adhesive rather than the mode of application or the end-use. An additional indexed section containing several hundred abstracts from the Rapra Polymer Library database provides useful references for further reading.

Corrosion Control Through Organic Coatings, Second Edition provides readers with useful knowledge of the practical aspects of corrosion protection with organic coatings and links this to ongoing research and development. Thoroughly updated and reorganized to reflect the latest advances, this new edition expands its coverage with new chapters on coating degradation, protective properties, coatings for submerged service, powder coatings, and chemical pretreatment. Maintaining its authoritative treatment of the subject, the book reviews such topics as corrosion-protective pigments, waterborne coatings, weathering, aging, and degradation of paint, and environmental impact of commonly used techniques including dry- and wet-abrasive blasting and hydrojetting. It also discusses theory and practice of accelerated testing of coatings to assist readers in developing more accurate tests and determine corrosion protection performance.

This book and its companion volumes contain plastics additives formulations based on information received from numerous industrial companies and other organizations. Each formulation is identified by a description of its end use. Corrosion can be both costly and dangerous, resulting in product contamination or loss as well as structural instability and premature failure. This handbook contains information necessary for ensuring that, regardless of the structure being

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built, the materials selected for construction will minimize corrosion and its consequences. Nearly t

Updated and expanded coverage of the latest trends and developments in fiber composite materials, processes, and applications Analysis and Performance of Fiber Composites, Fourth Edition features updated and expanded coverage of all technical aspects of fiber composites, including the latest trends and developments in materials, manufacturing processes, and materials applications, as well as the latest experimental characterization methods. Fiber reinforced composite materials have become a fundamental part of modern product manufacturing. Routinely used in such high-tech fields as electronics, automobiles, aircraft, and space vehicles, they are also essential to everyday staples of modern life, such as containers, piping, and appliances. Little wonder, when one considers their ease of fabrication, outstanding mechanical properties, design versatility, light weight, corrosion and impact resistance, and excellent fatigue strength. This Fourth Edition of the classic reference—the standard text for composite materials courses, worldwide—offers an unrivalled review of such an important class of engineering materials. Still the most comprehensive, up-to-date treatment of the mechanics, materials, performance, analysis, fabrication, and characterization of fiber composite materials available, Analysis and Performance of Fiber Composites, Fourth Edition features:

Expanded coverage of materials and manufacturing, with additional information on materials, processes, and material applications Updated and expanded information on experimental characterization methods—including many industry specific tests Discussions of damage identification techniques using nondestructive evaluation (NDE) Coverage of the influence of moisture on performance of polymer matrix composites, stress corrosion of glass fibers and glass

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reinforced plastics, and damage due to low-velocity impact

New end-of-chapter problems and exercises with solutions

found on an accompanying website Computer analysis of

laminates No other reference provides such exhaustive

coverage of fiber composites with such clarity and depth.

Analysis and Performance of Fiber Composites, Fourth

Edition is, without a doubt, an indispensable resource for

practicing engineers, as well as students of mechanics,

mechanical engineering, and aerospace engineering.

The aim of this book is to introduce the use of green solvents

throughout chemistry and to provide a comprehensive

reference for solvents currently applicable in green chemistry.

The first section covers solvents in chemical perspective, and

the second section is a guide to green solvents. Overall, this

volume defines characteristics of green solvents and their

current usage, and explores their importance ecologically and economically. It includes a full range of commercial, industrial, and academic green solvents, and discusses solvents in

specific commercial and non-commercial practices. Green

Solvents for Chemistry differs from other works on solvents in

that only solvents for green chemistry are included along with their chemical properties and toxicological issues.

This single, highly illustrated volume contains everything that

the owner of a new or traditional boat will need to maintain

her in a safe and seaworthy condition at minimum cost. Its

detailed tables provide a unique survey of the real cost of

every aspect of yacht upkeep.

Arising from an examination in 1969 of the education and

training opportunities for paint industry technicians, it was

recognized that the various courses available at that time did

not fully serve their needs. While a few large companies had

developed in-house training arrangements, the many medium

and smaller firms in the raw material supply, paint

manufacturing or paint user industries, were unable to provide

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their own comprehensive training programs. With a view to improving this situation, an advisory committee comprising of representatives of the Australian Paint Manufacturers' Federation and the Oil and Colour Chemists' Association Australia was established to liaise directly with the New South Wales Department of Technical and Further Education. As a result plans were developed for the introduction of a Special Course in 'Surface Coatings Technology' in 1971, conducted by the Sydney Technical College. The scope of the course was designed to cover all aspects of surface coatings technology ranging from raw materials and formulations to the production, testing, evaluation, application and use of finished products. The course proved to be highly successful and in 1973 a similar syllabus was introduced by the Melbourne School of Painting, Decorating and Signcrafts in Victoria. In 1980, New Zealand followed suit with a similar course conducted by the Auckland Technical Institute.

No doubt: A perfect coating has to look brilliant! But other properties of coatings are also most important. Coatings have to be durable, tough and easily applicable. Additives are the key to success in achieving these characteristics, even though the amounts used in coating formulations are small. It is not trivial at all to select the best additives. In practice, many series of tests are often necessary, and the results do not explain, why a certain additive improves the quality of a coating and another one impairs the coating. This book is dedicated to developers and applicants of coatings working in research or production, and it is aimed at providing a manual for their daily work. It will answer the following questions: How do the most important groups of additives act? Which effects can be achieved by their addition? Scientific theories are linked to practical applications. Emphasis is put on the optical aspects that are most important for the applications in practice. This book is a milestone in quality assurance in the

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complete field of coatings!

This volume compiles a wealth of information on the composition, properties, utilization, and performance of major classes of additives while alerting formulators to potentially damaging interactions and challenges in the selection and testing of these materials. Completely revised and updated, the Handbook of Coatings Additives, Second Edition offers a comprehensive guide to the selection and use of additives. Instead of using expensive alloys to construct a tank or processing vessel, it is often more economical to use a less expensive metal, such as carbon steel, and install a lining to provide protection from corrosion. Corrosion of Linings and Coatings: Cathodic and Inhibitor Protection and Corrosion Monitoring offers focused coverage for professionals interested in protective linings and coatings, corrosion protection, and monitoring techniques. The author details various materials and methods for controlling and protecting against corrosion. He discusses the use of mortars, grouts, and monolithic surfaces and explains how the use of inhibitors and cathodic protection help prevent corrosion. The book also provides details for various types of linings materials and coatings and includes valuable compatibility charts for each material covered. The author concludes with an explanation of a variety of corrosion monitoring techniques currently available.

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,

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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 Now in its second edition and still the only book of its kind, this is an authoritative treatment of all stages of the coating process -- from body materials, paint shop design, and pre-treatment, through primer surfacers and top coats. New topics of interest covered are color control, specification and testing of coatings, as well as quality and supply concepts, while valuable information on capital and legislation aspects is given. Invaluable for engineers in the automotive and paints and coatings industry as well as for students in the field.

This book builds up on the success of the first edition of *Paints, Coatings, and Solvents*. The first edition has been completely revised, the second edition

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thus is an up-to-date overview of the industrial aspects of paints, coatings, and solvents including composition, production, processing, uses, and methods of analysis. Special attention is given to toxicology and environmental protection matters. From reviews of the first edition: 'The publisher has successfully gathered together authors of international renown' (Current Engineering Practice) 'This book is a valuable read for anyone interested in this field' (Composites in Science and Technology) 'This work serves not only as a concise practical guide but is also an authoritative reference book essential to all chemists and chemical engineers working with paints, coatings, and solvents.' (Corrosion Reviews)

The purpose of this work was to develop water-based analogs of existing solvent-based epoxy primer and polyurethane topcoat systems. The approach was to prepare separate aqueous emulsions of epoxy resin and curing agent that could be mixed just before application and isocyanate prepolymer adducts that could be emulsified without reaction with water. Solvent-free, stable emulsions of epoxy resins with average particle diameter of 0.2 micro m and below were prepared using the anionic sodium lauryl sulfate-cetyl alcohol or the cationic hexadecyltrimethyl-ammonium bromide-cetyl alcohol combinations as emulsifier. Also, cationic emulsions were prepared from the curing agent. The

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emulsification of these epoxy resins and curing agents was improved by the substitution of n-decane for the cetyl alcohol in the mixed emulsifier. In order to increase the curing rate of the epoxy films at room temperature, some chemical additives were incorporated either in the epoxy resin or the curing agent prepolymer prior to the emulsification process. The solvent-stripped cationic epoxy resin and curing agent emulsions were mixed in various proportions and cured at room temperature, or 55 C.A mechanism was established for the curing of emulsion-cast epoxy-curing agent films by determining the morphological properties and the dynamic mechanical properties of these films. The results demonstrated that the diffusion of the curing agent molecules into the epoxy resin particles is controlled by the degree of interfacial crosslinking which takes place between the coalesced epoxy resin and curing agent particles.

The compact, affordable reference, revised and updated The Encyclopedia of Polymer Science and Technology, Concise Third Edition provides the key information from the complete, twelve-volume Mark's Encyclopedia in an affordable, condensed format. Completely revised and updated, this user-friendly desk reference offers quick access to all areas of polymer science, including important advances in nanotechnology, imaging and analytical techniques, controlled polymer architecture, biomimetics, and

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more, all in one volume. Like the twelve-volume full edition, the Encyclopedia of Polymer Science and Technology, Concise Third Edition provides both SI and common units, carefully selected key references for each article, and hundreds of tables, charts, figures, and graphs.

Since Surface Coatings first appeared in 1974, the industry has undergone dramatic and rapid changes both in direction and emphasis, and this new edition mirrors these changes. Volume I includes coverage of aqueous systems, with chapters on emulsions and aqueous resins as well as providing an excellent introduction to polymer science, pigments, solvents and additives.

One of the most exciting areas of polymer research is the study of interfacial phenomena and their practical applications. This major work reviews the key research in this important area and is used in such areas as biomaterials. Part one looks at the thermodynamics, kinetics and other fundamental properties of polymer surfaces and interfaces. The second part of the book reviews ways of characterising and manipulating interfacial phenomena. It includes examples of practical applications such as vaccine delivery, tissue engineering and the development of therapeutic lung surfactants. With its distinguished editor and international team of contributors, Molecular interfacial phenomena of polymers and biopolymers

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is a standard work on understanding polymeric interfacial properties and their medical and other practical applications. Reviews key research in this hot area including biomaterials Examines polymeric interfacial properties and reviews medical and other practical applications Edited by a leading authority with contributions from distinguished experts worldwide

This industrially relevant resource covers all established and emerging analytical methods for the deformation 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. 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

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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.

In this new edition, *Thermosets: Structure, Properties, and Applications* builds on and updates the existing review of mechanical and thermal properties, as well as rheology and curing processes of thermosets, and the role of nanostructures in thermoset toughening. All chapters have been updated or re-written, and new chapters have been added to reflect ongoing changes and developments in the field of thermosetting materials and the applications of these materials. Applications of thermosets are the focus of the second part of the book, including the use of thermosets in the building and construction industry, aerospace technology and as insulation materials. Thermoset adhesives and coatings, including epoxy resins, acrylates and polyurethanes are also discussed, followed by a review of thermosets for electrical applications. New chapters include coverage of thermoset nanocomposites, recycling issues, and applications such as consumer goods, transportation, energy and defence. With its distinguished editor and international team of expert contributors, the second edition of *Thermosets: Structure, Properties, and Applications* is an essential guide for engineers, chemists, physicists and polymer scientists involved in the development, production and application of thermosets, as well as providing a useful review for

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academic researchers in the field. Links structure, properties, and applications, making this book relevant to both academia and engineers in industry Includes entirely new chapters on the use of thermosets in aerospace, transport, defense, and a range of consumer applications Enables practitioners to stay current on the latest developments in recycling of thermosets and their composites

After completing his chemistry studies in Krefeld/Germany, Wernfried Heilen started working for Wulfing (PPG) in 1977, in the R&D Department for Industrial Coatings. After moving to Byk Chemie, he assumed responsibility as ProductManager for various product groups. In 1983 he joinedGoldschmidt as Head of Technical Service for Additives and, at a later stage, for silicone resins as well. He has been Director of Technical Marketing Department in the Degussa Business Line Tego Coatings & Ink Additives since 2001."

Undoubtedly the applications of polymers are rapidly evolving. Technology is continually changing and quickly advancing as polymers are needed to solve a variety of day-to-day challenges leading to improvements in quality of life. The Encyclopedia of Polymer Applications presents state-of-the-art research and development on the applications of polymers. This groundbreaking work provides important overviews to help stimulate further advancements in all areas of polymers. This comprehensive multi-volume reference includes articles contributed from a diverse and global team of renowned researchers. It offers a broad-based perspective on a multitude of topics in a variety of applications, as well as

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detailed research information, figures, tables, illustrations, and references. The encyclopedia provides introductions, classifications, properties, selection, types, technologies, shelf-life, recycling, testing and applications for each of the entries where applicable. It features critical content for both novices and experts including, engineers, scientists (polymer scientists, materials scientists, biomedical engineers, macromolecular chemists), researchers, and students, as well as interested readers in academia, industry, and research institutions.

The Indian plastic and polymer industry has taken great strides. In the last few decades, the industry has grown to the status of a leading sector in the country with a sizable base. The material is gaining notable importance in different spheres of activity and the per capita consumption is increasing at a fast pace. Numerous plastics and fibers are produced from synthetic polymers; containers from propylene, coating materials from PVC, packaging film from polyethylene, experimental apparatus from Teflon, stockings from nylon fiber, there are too many to mention them all. The reason why plastics are popular is that they may offer such advantages as transparency, self lubrication, light weight, flexibility, economy in fabricating and decorating. Properties of plastics can be modified through the use of fillers, reinforcing agents and chemical additives. Silicones are by far the most important industrial polymers and are based on silicon, an element abundantly available on our planet. Polymers are classified in three broad groups; addition polymers,

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condensation polymers and special polymers. It is well known that the major consumption of additives is in PVC compounds. Approximately 80% of additives are being used in PVC; however the left over 20% is consumed in compounding of other thermoplastics. Plastic master batches and fillers have their own importance in plastic processing industries. Colorants are the materials that give colour and opacity to plastics are chemically characterized as either pigments or dyes. Pigments are finely pulverized natural or synthetic particles which may be of inorganic or organic origin and insoluble in the matrix in which they are dispersed. Permanent red 2B is a mono azo pigment that is widely used in thermoplastics because it is inexpensive and has high tinting strength and good bleed resistance. Fillers are commonly employed in opaque PVC compounds to reduce cost and to improve electrical insulation properties, to improve deformation resistance of cables, to increase the hardness of a flooring compound and to reduce tackiness of highly plasticized compounds. Various calcium carbonate are used for general purpose work, china clay is commonly employed for electrical insulation, and asbestos for flooring applications. Also employed occasionally are the silicas and silicates, talc, light magnesium carbonate and barites (barium sulfate). Polymer Energy system is an award winning, innovative, proprietary process to convert waste plastics into renewable energy. Polymers are the most rapidly growing sector of the materials industry. No wonder polymers are found in everything from compact discs to high tech aerospace applications. On the basis of value

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added, Indian share of plastic products industry is about 0.5% of national GDP. Some of the astonishing fundamentals of the book are industrial polymers, addition polymers polyolefins, polyethylene, chlorinated polyethylene, cross linked polyethylene, linear low density polyethylene (LLDPE), high molecular weight polyethylene, high density polyethylene, ultrahigh molecular weight polyethylene, polypropylene, poly(vinyl chloride), stabilizers, plasticizers, extenders, mineral filled or glass bead/milled glass grades, antistatic/electro conductive grades, electroplatable grades, etc. The present book enlightens the processing of industrial polymers, additives, colourant and fillers. This book is an invaluable resource to new entrepreneurs, technocrats, researchers, professionals etc.

Although most public health and environmental engineers are aware of the importance of microbial activity, many civil engineers do not appreciate the part microbiological process play in, for example, biodeterioration of concrete and other construction materials, alteration of soil and rock properties, clogging of boreholes, distribution and irrigation systems, and biofouling in embankment dams. There is a need for greater interaction between scientists and engineers in this respect. Recent advances in applied microbiology and biochemistry could usefully be extrapolated to fields of civil engineering. Indeed an understanding of microbiological activity in what is often thought of as purely physical and/or chemical processes and an awareness of what to look for is becoming increasingly important for civil engineers in their design of a variety of

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systems and structures. This book forms the Proceedings of the International Conference held at Cranfield Institute of Technology, UK, in September 1990.

For the first time: A comprehensive Overview on Resins! Resins nowadays are still the subject of much interest, with applications in many branches of industrial production. Increasingly stringent specific market requirements and the demand for better quality control and product consistency mean that chemists, engineers, and application technicians are not merely satisfied with the knowledge of the physical data of the basic chemical products they are using. The raw materials, their production processes and special physical and chemical characteristics relevant to their applications are increasingly of interest. This book points out the extent to which raw materials, manufacturing processes, and chemical composition of resins influence their application and performance.

This book comprehensively covers corrosion and corrosion protection in China in the areas including infrastructure, transportation, energy, water environment, as well as manufacturing and public utilities. Furthermore, it presents a major consulting project of Chinese Academy of Engineering, which was the largest corrosion investigation project in Chinese history, including the corresponding methods, processes and corrosion protection strategies, and provides valuable information for numerous industries. Sharing essential insights into corrosion prediction and decision-making, this book will help to decrease costs and extend the service life of equipment and facilities; accordingly, it will benefit scientists and engineers working on corrosion research and protection, as well as economists and government employees.

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Handbook of Surface Improvement and Modification contains information on several groups of additives and the modification processes which determine the surface properties of many materials. These additives can modify or improve scratch and mar resistance, improve gloss or flatten the surface, increase or decrease tack and inhibit staining. The mechanisms of damage, protection and property improvements are also discussed, making this an essential handbook for engineers, researchers and technicians interested in using additives to modify and improve the surface properties of materials. A companion book entitled Databook of Surface Modification Additives has also been published. It contains information and data on the additives commercially available to improve materials by the above-listed modifications. Both books do not repeat information. In this book, the focus is on the methods and mechanisms which are known to be responsible for the enhancement of material properties with the use of additives. Focuses on the improvement of surface properties, with detailed coverage of the additives used, including the process of selection and examples of application Presents the mechanisms of damage, protection and property improvements based on research data Aids the user in formulating products that fit specific requirements and applications

The worldwide thermoset resins industry is thriving and producing lightc099, high performance, high quality products for an ever-expanding range of markets. This report focuses on the most widely used materials with shorter sections on speciality resins. Major application areas, consumption, recycling issues along with the current markets and potential future growth and developments are discussed.

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