

## Technical Datasheet

Ashland Performance Materials



### DERAKANE® 510 C-350 Epoxy Vinyl Ester Resin

DERAKANE 510C-350 resin is a brominated vinyl ester resin that offers a high degree of fire retardance<sup>(1)</sup> while providing the excellent chemical resistance and toughness typical of DERAKANE resins. Optimum fire retardance is achieved when antimony compounds are added to the resin. DERAKANE 510 C-350 resin provides resistance to a wide range of acids, alkalis, bleaches and organic compounds for use in many chemical processing industry applications.

DERAKANE 510C-350 resin contains only 35 percent styrene, resulting in reduced styrene emissions.

(1) The fire retardancy and flame spread data were obtained from controlled and/or small scale bench tests and the results apply specifically to the specimens tested, in the manner tested. They are not necessarily predictive of product performance in a real fire situation. DERAKANE resins are organic materials and the fabricated products constructed from them will burn under the right conditions of heat and oxygen supply. This numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

#### APPLICATIONS AND USE

Equipment fabricated with DERAKANE 510C-350 resin resists mechanical and chemical damage which enables it to be used in various caustic environments such as sodium hypochlorite, chlorine dioxide and alkaline hydrogen peroxide. It is also suitable for equipment specified to handle mixtures of air and hot gases, building panels, and flooring compounds where a degree of fire retardance is required. It is also recommended for use in FRP ductwork, stacks and stack-liner applications.

DERAKANE 510C-350 resin is designed for ease of fabrication using hand lay-up, spray-up, filament winding, compression molding, resin transfer molding techniques and pultrusion.

Laminates made with DERAKANE 510 C-350 resin have been certified to meet ASTM E-84 flame spread "Class 2" rating (less than 75). With the use of antimony synergists, Class 1 ratings can be achieved.<sup>(2)</sup>

Recommendations for specific services and environments can be provided by contacting us at [derakane@ashland.com](mailto:derakane@ashland.com).

#### TYPICAL LIQUID RESIN PROPERTIES

Property <sup>(1)</sup> at 25°C (77°F)	Value	Unit
Dynamic Viscosity	400	mPa·s (cps)
Kinematic Viscosity	350	cSt
Styrene Content	35	%
Density	1.14	gm/ml



Ashland is committed to the continuous evolution of technology and service solutions that promote health, safety and environmental protection around the world.  
<sup>(1)</sup> Registered service mark of the American Chemistry Council. <sup>(2)</sup> Registered trademark and <sup>™</sup> trademark of Ashland Inc.

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# Ashland Technical Data Sheet

**Raffaella Di Napoli**



## Ashland Technical Data Sheet:

*HVAC and Chemical Resistance Handbook for the Engineer and Architect* Tom Arimes, 1994 The title is misleading until you check out the contents It is all about HVAC and more This compilation has organized data frequently used by Mechanical Engineers Mechanical Contractors and Plant Facility Engineers The book will end the frustration on a busy day searching for design criteria

**Handbook of Maleic Anhydride Based Materials** Osama M. Musa, 2016-09-22 A handbook on syntheses and properties production processes and applications of maleic anhydride and maleic anhydride derived products all in one text This handbook provides a comprehensive overview of maleic anhydride chemistry and applications from the professional perspective With chapters written by leading R D scientists from the chemical industry and edited by the Vice President and ASI Technology Chief at Ashland Specialty Ingredients ASI Dr Osama M Musa readers will find a unique perspective and summary of the latest advancements in the field of maleic anhydride science Maleic anhydride is produced industrially on large scale 10E3 kt annum Its rich chemistry makes it an important raw material for numerous products and processes e g for applications in polymers and coatings many of which are covered in this handbook for the first time in a comprehensive manner The broad scope spans topics ranging from production techniques including topics such as processes catalysis trouble shooting synthesis and properties of small and polymeric maleic anhydride based compounds focusing on industrially relevant compounds as well as emerging areas of importance and in depth and broad discussions of commercial maleic anhydride based applications

Nitric Acid Canada. Environmental Protection Programs Directorate. Technical Services Branch, 1985 Information is provided on physical and chemical properties commerce and production material handling transport environmental effects human health effects chemical compatibility spill countermeasures previous spill experience and analytical methods

*Carbon Fibers Filaments and Composites* J.L. Figueiredo, Carlos A. Bernardo, R.T.K. Baker, K.J. Hüttinger, 2013-03-14 Conventional synthetic materials like metals ceramics or glass are usually isotropic substances and their suitability for structural applications is achieved by morphological design and combination in the macroscopic scale However in modern engineering this is often not acceptable As an alternative the use of non homogeneous anisotropic materials with significant stiffness and strength only in the directions these mechanical properties are really needed can lead to enormous material and weight savings This is the case of multiphase systems called composite materials In these composites different material parts are added and arranged geometrically under clearly designed and controlled conditions Usually a structure of fibers provides strength and stiffness and a matrix holds them together whilst providing the geometric form Carbon fibers are among the high performance fibers employed in these advanced structural composites which are profoundly changing many of today's high technology industries New research and development challenges in this area include upgrading the manufacturing process of fibers and composites in order to improve characteristics and reduce costs and modifying the interfacial properties between fibers and matrix to guarantee better

mechanical properties The interdisciplinary nature of this new frontier is obvious involving chemistry materials science chemical and mechanical engineering Other topics which more often are treated separately are also important for the understanding of the processes of fiber production Carbon filaments is one such topic as the study of their mechanisms of nucleation and growth is clearly quite relevant to the production of vapour grown carbon fibers

**Cosmetic Science and Technology: Theoretical Principles and Applications** Kazutami Sakamoto, Robert Y. Lochhead, Howard I. Maibach, Yuji Yamashita, 2017-03-03 Cosmetic Science and Technology Theoretical Principles and Applications covers the fundamental aspects of cosmetic science that are necessary to understand material development formulation and the dermatological effects that result from the use of these products The book fulfills this role by offering a comprehensive view of cosmetic science and technology including environmental and dermatological concerns As the cosmetics field quickly applies cutting edge research to high value commercial products that have a large impact in our lives and on the world's economy this book is an indispensable source of information that is ideal for experienced researchers and scientists as well as non scientists who want to learn more about this topic on an introductory level Covers the science preparation function and interaction of cosmetic products with skin Addresses safety and environmental concerns related to cosmetics and their use Provides a graphical summary with short introductory explanation for each topic Relates product type performance to its main components Describes manufacturing methods of oral care cosmetics and body cosmetics in a systematic manner

**Hazardous waste contamination of water resources (concerning groundwater contamination in Santa Clara Valley, CA)** United States. Congress. House. Committee on Public Works and Transportation. Subcommittee on Investigations and Oversight, 1986

The Conservator's Cookbook Laura Chaillie, 2024-12-30 The Conservator's Cookbook is a collection of practical step by step guides outlining how to prepare various solutions adhesives gels and other mixtures used in heritage conservation While most conservators learn the chemical rationale of solution making during their training the actual process of preparing these compounds can be neglected or eventually forgotten This cookbook provides a non exhaustive and adaptable resource compiling practical recipes from across heritage conservation literature into a single volume Drawing from techniques used in furniture paper paintings textiles and other conservation specialisms each recipe in the Cookbook begins with a short summary of key chemical ideas before relating step by step instructions The solutions range from simple dissolutions adhesive resins to more complex cleaning systems utilising surfactants chelation agents and enzymes and gelled carriers Each recipe is followed with collections of technical data which help to bridge the gap between chemical understanding and practical application The Cookbook also provides important notes on health and safety and laboratory best practice addressing some common misunderstandings and encouraging more sustainable approaches Intended for the experienced professional and conservation student alike The Conservator's Cookbook is a crucial reference work that provides a starting point for practical experimentation and interaction between different conservation specialisms

SPI Handbook of Technology and Engineering of Reinforced Plastics/composites John Gilbert Mohr,1981     Foundry Management & Technology ,1970     **BUYERS GUIDE** ,1991     Chemicalweek ,1998     Foundry ,1970     **Handbook of Adhesives** Irving Skeist,2012-12-06 Adhesives are indispensable They are required pling agents and other key ingredients Special in myriad products aircraft and abrasives cars attention is given to such flourishing categories and cartons shoes and safety glass tape and as acrylics anaerobics cyanoacrylates poly urethanes epoxy resins polyvinyl acetate high tires This Third Edition of Handbook of Ad hesives like the 1962 and 1977 editions seeks temperature adhesives hot melts silicones and to provide the knowledge needed for optimum silanes selection preparation and utilization of adhe The last 14 chapters on adherends and bond sives and sealants The information is detailed ing technology involve the auto industry air and explicit with several hundred illustrative craft electronics the bonding of wood formulations textiles rubber and plastics construction ab Expert information has been supplied in 47 rasives pressure sensitives nonwovens and chapters written by 70 industry specialists pro sealants Mechanical handling of two compo fessors and consultants Five chapters on fun nent systems is examined The concluding damentals provide the theoretical and economic chapter highlights the exciting progress that is underpinnings why adhesives work how they being made in the use of robotics to apply ad are selected how the surface is prepared how hesives techniques already far advanced in au they are applied how they are set how the tomotive assembly cured joint is tested     Textile Technology Digest ,1991-07     **chemicalweek, BUYER'S GUIDE ISSUE 1988** ,  
Chemical Week ,2002     **Solid State Technology** ,1983     chemical week Responsible Care ,1997     **Responsible Care Building the Dream** ,1995     Special Report Sigurd Olson Institute of Environmental Studies,1976

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