

# Ashland Technical Data Sheet

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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 resolution of technology and service solutions that promote health, safety, and environmental protection around the world.  
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**ASHLAND**  
With good chemistry great things happen.™

**Ashland technical data sheet** is an essential document that provides comprehensive information about various products offered by Ashland, a global leader in specialty chemicals. These data sheets serve as a critical resource for engineers, architects, and product developers, offering insights into product properties, applications, safety guidelines, and handling recommendations. In this article, we will explore the importance of Ashland technical data sheets, the key elements they contain, and how to effectively utilize them for your projects.

# Understanding Ashland Technical Data Sheets

Ashland technical data sheets (TDS) are designed to inform users about the characteristics and performance of specific products. They play a vital role in ensuring that users have the information necessary to make informed decisions regarding the selection, handling, and application of these products.

## What is Included in a Technical Data Sheet?

Typically, an Ashland technical data sheet includes the following key components:

- **Product Identification:** Name, product code, and chemical classification.
- **Physical Properties:** Information on appearance, viscosity, density, and other relevant physical characteristics.
- **Chemical Composition:** Detailed breakdown of the product's chemical constituents.
- **Performance Characteristics:** Data on how the product performs under various conditions and applications.
- **Application Guidelines:** Instructions on how to effectively use the product in different scenarios.
- **Safety Information:** Important safety and handling precautions, including personal protective equipment (PPE) recommendations.
- **Storage and Shelf Life:** Recommendations for proper storage conditions and information about the product's shelf life.
- **Regulatory Compliance:** Information about compliance with relevant regulations and standards.

## The Importance of Technical Data Sheets

### Informed Decision-Making

Having access to well-structured technical data sheets is crucial for

professionals in various industries. The information contained within these documents enables users to select the right product for their specific needs. This is particularly important in sectors such as construction, automotive, and manufacturing, where the wrong choice can lead to failures or inefficiencies.

## **Ensuring Safety and Compliance**

Safety is a paramount concern in any industry. Ashland technical data sheets provide essential safety information that helps users handle products appropriately. By following the recommendations outlined in the TDS, users can minimize risks associated with chemical exposure and ensure compliance with regulatory requirements.

## **Aiding in Product Development**

For researchers and product developers, Ashland technical data sheets are invaluable resources. They offer detailed insights into product properties, enabling developers to formulate new products or enhance existing formulations. This process can lead to innovation and improved performance in various applications.

## **How to Effectively Use Ashland Technical Data Sheets**

### **Finding the Right Technical Data Sheet**

To access an Ashland technical data sheet, visit the official Ashland website. Navigate to the product information section, where you can search for specific products by name or category. Once you locate the desired product, download the TDS to review its contents.

### **Interpreting the Information**

Understanding the information in a technical data sheet can be challenging, especially for those new to the industry. Here are some tips for interpreting TDS information effectively:

1. **Focus on Key Properties:** Identify the physical and performance properties that are most relevant to your application.

2. **Pay Attention to Safety Guidelines:** Always prioritize safety information and follow recommended handling procedures.
3. **Consider Compatibility:** Evaluate how the product interacts with other materials and processes you plan to use.
4. **Review Storage Recommendations:** Ensure that you have the proper storage conditions to maintain product integrity.

## Keeping Updated with Product Changes

Manufacturers regularly update their technical data sheets to reflect new research, formulation changes, or regulatory updates. It is essential to check for the latest version of a TDS before making product decisions. Subscribing to Ashland's newsletters or product updates can help ensure you stay informed.

## The Role of Ashland in the Chemical Industry

Ashland has established itself as a trusted provider of specialty chemicals across various sectors. With a commitment to innovation and sustainability, Ashland continually develops new formulations and solutions that meet the evolving needs of its customers.

## Innovative Solutions

The company invests heavily in research and development, allowing them to create innovative products that enhance performance and efficiency. Their technical data sheets reflect this commitment by providing users with the most accurate and up-to-date information about product innovations.

## Sustainability Initiatives

In recent years, Ashland has placed a strong emphasis on sustainability. Their technical data sheets often include information on the environmental impact of products, showcasing their commitment to reducing waste and promoting eco-friendly practices. Users can leverage this information to make choices that align with their sustainability goals.

# Conclusion

In conclusion, **Ashland technical data sheets** are invaluable tools for professionals across various industries. They provide essential information on product properties, safety, and application guidelines, facilitating informed decision-making and ensuring compliance with safety regulations. By effectively utilizing these data sheets, users can enhance their projects, promote safety, and contribute to sustainability initiatives. Whether you are an engineer, product developer, or safety officer, familiarizing yourself with Ashland's TDS can significantly benefit your work and the success of your projects.

## Frequently Asked Questions

### **What is an Ashland Technical Data Sheet (TDS)?**

An Ashland Technical Data Sheet (TDS) provides detailed information about a specific product, including its properties, applications, handling instructions, and safety guidelines.

### **How can I access Ashland Technical Data Sheets?**

Ashland Technical Data Sheets can be accessed through the official Ashland website or by contacting their customer service for specific product information.

### **What information is typically included in an Ashland TDS?**

A typical Ashland TDS includes product descriptions, physical and chemical properties, recommended applications, safety and handling instructions, and storage specifications.

### **Why are Ashland Technical Data Sheets important for product selection?**

Ashland TDS are crucial for product selection as they provide essential information that helps users determine compatibility, performance, and safety for specific applications.

### **Are Ashland Technical Data Sheets regularly updated?**

Yes, Ashland regularly updates their Technical Data Sheets to reflect the latest product formulations, regulatory requirements, and safety information.

# Can I find safety data related to Ashland products in the TDS?

While the TDS contains some safety information, for comprehensive safety data, you should refer to the corresponding Safety Data Sheet (SDS) which provides detailed hazard and handling information.

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