

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⁽¹⁾ 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.⁽²⁾

Recommendations for specific services and environments can be provided by contacting us at derakane@ashland.com.

TYPICAL LIQUID RESIN PROPERTIES

Property ⁽¹⁾ 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.
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Ashland Technical Data Sheet

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Motor Using Fuzzy Logic Controller Optimized by ... Universiti Teknologi Malaysia, ACKNOWLEDGMENT Johor, Malaysia, in 2011. He ... DC Motor Control | Automation & Control Engineering Forum Jun 20, 2022 — I have a 1 HP DC motor that I'm currently manually controlling using a Dayton 1F792 DC Speed Control unit. I want to automate the following ...