

Derakane® 510C-350

Vinyl Ester

Ashland Performance Materials

Message:

DERAKANE 510C-350 resin is a brominated vinyl ester resin that offers a high degree of fire retardance 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.

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.

General Information			
Features	Good chemical resistance		
	alkali resistance		
	acid resistance		
	Good toughness		
	brominated		
	Flame retardancy		
Uses	Laminate		
	Floor Material		
	Building materials		
Agency Ratings	ASTM E 84 Class 2		
Forms	Liquid		
Processing Method	Filament power winding		
	pultrusion		
	Hand coating		
	Resin transfer molding		
	Compression molding		
Physical	Nominal Value	Unit	Test Method
Solution Viscosity	400	mPa · s	
Styrene Content	35	%	
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	35		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			

--	3170	MPa	ASTM D638
--	3200	MPa	ISO 527-2
Tensile Strength			
--	82.7	MPa	ASTM D638
--	86.0	MPa	ISO 527-2
Tensile Elongation (Yield)	5.0 - 6.0	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	3380	MPa	ASTM D790
--	3400	MPa	ISO 178
Flexural Strength			
--	152	MPa	ASTM D790
--	150	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	104	°C	ASTM D648
1.8 MPa, not annealed	105	°C	ISO 75-2/A
Glass Transition Temperature			
--	121	°C	ASTM D3418
--	120	°C	ISO 11357-2
Additional Information			

Properties of clear casting at 25°C.

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