

Derakane® Momentum 510C-350

Vinyl Ester

Ashland Performance Materials

Message:

DERAKANE MOMENTUM® 510 C-350 is a brominated epoxy vinyl ester resin that offers a high degree of fire retardance while providing excellent chemical resistance and toughness. Optimum fire retardance is achieved when antimony compounds are added to the resin. Laminates made with DERAKANE MOMENTUM 510 C-350 resin have met ASTM E-84 Flame Spread "Class 2" rating (less than 75). With the use of antimony synergists, "Class 1" ratings can be achieved.

APPLICATIONS AND USE

DERAKANE MOMENTUM 510 C-350 resin is designed for ease of fabrication using hand lay-up, spray-up, filament winding, compression molding, resin transfer molding and pultrusion techniques. This resin is used extensively in FRP duct work, stacks and stack-liner applications. It is also suitable for equipment handling mixtures of air and hot gases, building panels and flooring compounds where a degree of ignition inhibiting properties are needed. DERAKANE MOMENTUM 510 C-350 resin resists mechanical and chemical damage enabling use in various caustic environments such as sodium hypochlorite, chlorine dioxide and alkaline hydrogen peroxide.

General Information	
Features	Good corrosion resistance
	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	420	mPa · s	
Styrene Content	35	%	
Volume Shrinkage	7.8	%	
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	Nominal Value	Unit	

Properties of clear casting at 25°C.

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