

Derakane® 510N

Vinyl Ester
Ashland Performance Materials

Message:

DERAKANE 510N resin is a brominated novolac epoxy vinyl ester resin that offers a moderate degree of fire retardance. It is the preferred resin the DERAKANE resin portfolio for strong oxidizers, such as chlorine and chlorine dioxide. It is also useful in hot, Wet fluegas environments vwhere thermal upsets can occur and vwhere fire retardance is desired. It exhibits a corrosion resistance similarto DERAKANE 470 resins in most environments.

APPLICATIONS AND USE

DERAKANE 510N resin is used extensively in FRP ductvwork, stacks, and stack liner applications, equipment specified to handle mixtures ofair and hot gases or potentially flammable and corrosive liquids, and flooring compounds where heat and/or fire retardance is required.

DERAKANE 510N resin is recommended for most FRP fabrication processes including filament winding, hand lay—up, spray—up, pultrusion and resin transfer molding.

General Information			
Features	brominated		
	Flame retardancy		
Uses	Laminate		
	Floor Material		
Agency Ratings	ASTM E 84 Class 2		
Forms	Liquid		
Processing Method	Filament power winding		
	pultrusion		
	Hand coating		
	Resin transfer molding		
Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm³	ISO 1183
Solution Viscosity	275	mPa · s	
Styrene Content	37	%	
Volume Shrinkage	8.4	%	
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	40		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
--	3450	MPa	ASTM D638
--	3400	MPa	ISO 527-2
Tensile Strength			
--	72.4	MPa	ASTM D638
--	76.0	MPa	ISO 527-2
Tensile Elongation (Yield)	3.0 - 4.0	%	ASTM D638, ISO 527-2

Flexural Modulus			
--	3650	MPa	ASTM D790
--	3600	MPa	ISO 178
Flexural Strength			
--	131	MPa	ASTM D790
--	138	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	121	°C	ASTM D648, ISO 75-2/A
Additional Information	Nominal Value	Unit	

Properties of clear casting at 25°C.

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

