

Derakane® 510A-40

Vinyl Ester

Ashland Performance Materials

Message:

DERAKANE 510A-40 epoxy vinyl ester resin is a brominated bisphenol-A based vinyl ester, designed to offer the maximum degree of fire retardance") combined with enhanced chemical resistance and toughness. Since fire retardance is achieved without additives, chemical resistance is maintained and visual inspection of fabricated articles is not impaired. It offers the highest bromine content of any DERAKANE resin.

APPLICATIONS AND USE

DERAKANE 510A-40 resin is the preferred choice where the highest fire retardance is required and is the standard recommendation for external fire retardance layer on FRP equipment. DERAKANE 510A-40 resin is used extensively in FRP ductwork, stacks and stack liner applications, handling mixtures of air and hot gases of potentially flammable liquids. It can be used with filament winding, hand lay-up, spray-up, pultrusion, and resin transfer molding techniques.

General Information	
Features	Good corrosion resistance Good chemical resistance alkali resistance Good toughness brominated Flame retardancy

Forms	Liquid
Processing Method	Filament power winding pultrusion Hand coating Resin transfer molding

Physical	Nominal Value	Unit	Test Method
Solution Viscosity	400	mPa · s	
Styrene Content	38	%	
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	40		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
--	3380	MPa	ASTM D638
--	3400	MPa	ISO 527-2
Tensile Strength			
--	84.8	MPa	ASTM D638
--	86.0	MPa	ISO 527-2
Tensile Elongation (Yield)	4.0 - 5.0	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	3590	MPa	ASTM D790

--	3600	MPa	ISO 178
Flexural Strength	150	MPa	ASTM D790, ISO 178
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	104	°C	ASTM D648, ISO 75-2/A

Additional Information

Properties of clear casting at 25°C.

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