Derakane® Momentum 470-300

Vinyl Ester

Ashland Performance Materials

Message:

DERAKANE MOMENTUM 470-300 resin is a novolac-based vinyl ester designed to provide exceptional mechanical properties at higher temperatures. This resin offers a high resistance to solvents and chemicals, good retention of strength and toughness at elevated temperatures, and excellent resistance to acidic oxidizing environments. DERAKANE MOMENTUM resins are a new generation of resins that can be used to improve fabrication efficiency and product quality. Their lighter color makes defects easier to see and correct while the resin is still workable. The longer stability provies additional flexibility to fabricators in storage and handling.

APPLICATIONS AND USE

DERAKANE MOMENTUM 470-300 resin is suitable for applications involving high temperature chlorination or caustic scrubbing and storage, industrial waste treatment facilities and solvent extraction processes used in mining. It is also used for hydrochloric acid transport, tank, truck and railcar linings, and gasohol storage.

DERAKANE MOMENTUM 470-300 is recommended for most commercial FRP fabrication processes including hand lay-up, spray-up, pultrusion and resin transfer molding. The higher viscosity of MOMENTUM DERAKANE 470-300 resin facilitates filament winding and contact molding applications.

General Information			
Features	Solvent resistance		
	Good corrosion resistance		
	Good chemical resistance		
	acid resistance		
Uses	Lining		
Forms	Liquid		
Processing Method	Filament power winding		
	pultrusion		
	Hand coating		
	Resin transfer molding		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm³	ISO 1183
Solution Viscosity	325	mPa·s	
Styrene Content	33	%	
Volume Shrinkage	8.3	%	
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	40		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
	3590	MPa	ASTM D638
	3600	MPa	ISO 527-2
Tensile Strength			
	86.2	MPa	ASTM D638
	85.0	MPa	ISO 527-2

Tensile Elongation (Yield)	3.0 - 4.0	%	ASTM D638, ISO 527-2
Flexural Modulus			
	3790	MPa	ASTM D790
	3800	MPa	ISO 178
Flexural Strength			
	131	MPa	ASTM D790
	130	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	149	°C	ASTM D648
10 MBs wat swarelad			
1.8 MPa, not annealed	150	°C	ISO 75-2/A
Glass Transition Temperature	150	°C	ISO 75-2/A
Glass Transition Temperature	150	°C	ISO 75-2/A ASTM D3418
Glass Transition Temperature	150 166 165	°C ℃	ISO 75-2/A ASTM D3418 ISO 11357-2

Properties of cured casting at 25°C.

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