

Derakane® 470-36-S

Vinyl Ester

Ashland Performance Materials

Message:

DERAKANE 470-36-S epoxy vinyl ester resin is an epoxy novolac-based resin designed to provide exceptional thermal and chemical resistance 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.

APPLICATIONS AND USE

Equipment fabricated with DERAKANE 470-36-S resin is suitable for such applications as high temperature flue gas desulfurization processes, industrial waste treatment facilities, metal pickling and solvent extraction processes used in mining.

DERAKANE 470-36-S resin is recommended for most FRP fabrication processes including hand lay-up, spray-up, pultrusion, infusion and resin transfer molding. Its stability makes it suitable for the formulation of special coatings like flake glass coatings.

General Information			
Features	Solvent resistance		
	Good chemical resistance		
	Heat resistance, high		
	acid resistance		
Uses	Industrial application		
	Coating application		
Forms	Liquid		
Processing Method	pultrusion		
	Hand coating		
	Resin transfer molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm ³	ASTM D792, ISO 1183
Solution Viscosity	240	mPa · s	
Styrene Content	36	%	
Volume Shrinkage	8.9	%	
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			
--	89.6	MPa	ASTM D638
--	90.0	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			
--	159	MPa	ASTM D790
--	160	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	146	°C	ASTM D648
1.8 MPa, not annealed	145	°C	ISO 75-2/A
Additional Information	Nominal Value	Unit	

Properties of clear casting at 25°C.

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