

Derakane® 8084

Vinyl Ester

Ashland Performance Materials

Message:

DERAKANE 8084 epoxy vinyl ester resin is an elastomer modified resin designed to offer increased adhesive strength, superior resistance to abrasion and severe mechanical stress, while giving greater toughness and elongation.

DERAKANE 8084 resin is the resin of choice as a primer to prepare a substrate surface (steel or concrete) for application of a corrosion resistant lining. It exhibits outstanding adhesive strength on different types of steel, aluminium and concrete.

APPLICATIONS AND USE

DERAKANE 8084 resin has exhibited chemical resistance across a broad range of acids, bases and organic chemicals. DERAKANE 8084 resin can be used for RTM, hand-lay up, spray-up, filament winding and other industrial FRP applications.

General Information			
Features	Good wear resistance		
	Good chemical resistance		
	alkali resistance		
	acid resistance		
Forms	Liquid		
Processing Method	Filament power winding		
	Hand coating		
	Resin transfer molding		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Solution Viscosity	360	mPa · s	
Styrene Content	40	%	
Volume Shrinkage	8.2	%	
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	30		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2900	MPa	ASTM D638, ISO 527-2
Tensile Strength			
--	75.8	MPa	ASTM D638
--	76.0	MPa	ISO 527-2
Tensile Elongation (Yield)	8.0 - 10	%	ASTM D638, ISO 527-2
Flexural Modulus			
--	3310	MPa	ASTM D790
--	3300	MPa	ISO 178
Flexural Strength			
--	131	MPa	ASTM D790
--	130	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact	480	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	82.2	°C	ASTM D648
1.8 MPa, not annealed	82.0	°C	ISO 75-2/A
Glass Transition Temperature	115	°C	ASTM D3418, ISO 11357-2
Additional Information	Nominal Value	Unit	

Properties of clear casting at 25°C.

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