Derakane® 451-400

Vinyl Ester

Ashland Performance Materials

Message:

DERAKANE 451-400 resin is a low viscosity, unpromoted novolac epoxy vinyl ester This product allows the use of standard MEKP, exhibits excellent exotherm control and industry-leading storage stability.

Exceptional hot water resistance

Excellent solvent and acid resistance

Good caustic resistance

Excellent impact strength

High heat resistance

High tensile elongation

General Information

APPLICATIONS AND USE

DERAKANE 451-400 resin is recommended for hand lay-up and spray-up, filament winding, flake glass and filled linings and coating compounds.

General information					
Features	Low viscosity				
	Solvent resistance				
	Impact resistance, high				
	Heat resistance, high				
	acid resistance				
	Extended tensile rate				
Uses	Lining				
	Coating application				
Forms	Liquid				
Processing Method	Filament power winding				
	Hand coating				
Physical	Nominal Value	Unit	Test Method		
Solution Viscosity ¹	425	mPa∙s			
Solids Content	58	%			
Hardness	Nominal Value	Unit	Test Method		
Barcol Hardness	35		ASTM D2583		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	3310	МРа	ASTM D638		
Tensile Strength	89.6	MPa	ASTM D638		
Tensile Elongation (Break)	5.6	%	ASTM D638		
Flexural Modulus	3450	MPa	ASTM D790		
Flexural Strength	138	MPa	ASTM D790		
riexarai strengtii	130	4			

Deflection Temperature Under Lo	oad (1.8			
MPa, Unannealed)	120	°C	ASTM D648	
Additional Information				
Properties of cured casting at 25°	°C.			

NOTE

1.

Brookfield #2 spindle @ 30 rpm

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Recommended distributors for this material

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