

Derakane® 455-400

Vinyl Ester

Ashland Performance Materials

Message:

Derakane 455-400 resin is an unpromoted, highly crosslinked novolac epoxy vinyl ester. This product allows the use of standard MEKP, exhibits excellent exotherm control, and industry-leading storage stability. DERAkANE 455-400 resin also contains less than 35% styrene. DERAkANE 455-400 resin offers a higher heat distortion temperature (HDT) compared to DERAkANE 451-400 resin. Equipment fabricated with DERAkANE 455-400 resin will exhibit:

- Excellent solvent and acid resistance
- High flexural strength
- High heat resistance

APPLICATIONS AND USE

DERAKANE 455-400 resin can be used for hand lay-up and spray-up, filament winding, flake glass and filled linings and coating compounds.

General Information			
Features	Solvent resistance		
	Heat resistance, high		
	acid resistance		
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	65	%	
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	45		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3520	MPa	ASTM D638
Tensile Strength	87.6	MPa	ASTM D638
Tensile Elongation (Break)	4.2	%	ASTM D638
Flexural Modulus	3930	MPa	ASTM D790
Flexural Strength	161	MPa	ASTM D790
Compressive Modulus	3410	MPa	ASTM D695
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	146	°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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