

# Hetron™ 922

Vinyl Ester  
Ashland Performance Materials

Message:

HETRON 922 resin is a low viscosity, unpromoted patented epoxy vinyl ester resin with F-Cat technology. This patented technology results in a resin that exhibits no foaming, excellent exotherm control, and industry-leading storage stability.

The raw materials used in the manufacture of this resin are listed as acceptable in FDA regulation Title 21 CFR 177.2420 for repeated use in contact with food, subject to user's compliance with the prescribed limitations of that regulation. HETRON 922 epoxy vinyl ester resin gives final products with:

Excellent corrosion resistance  
Excellent impact strength  
High tensile elongation

APPLICATIONS AND USE

HETRON 922 resin is designed for use in hand lay-up, spray-up, and filament winding. It can also be used for flake glass and filled lining and coating compounds.

General Information			
Features	Food Contact Acceptable		
	Good Corrosion Resistance		
	High Elongation		
	High Heat Resistance		
	High Impact Resistance		
	Low Viscosity		
Uses	Coating Applications		
	Liners		
Agency Ratings	FDA 21 CFR 177.2420		
Forms	Liquid		
Processing Method	Filament Winding		
	Hand Lay-up		
Physical	Nominal Value	Unit	Test Method
Solution Viscosity <sup>1</sup>	400	mPa · s	
Gardner Color	< 4.00		
Solids Content	56	%	
Peak Exotherm	188	°C	
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	30		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3170	MPa	ASTM D638
Tensile Strength	86.2	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	4.9	%	

Break	6.7	%	
Flexural Modulus	3450	MPa	ASTM D790
Flexural Strength	141	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	105	°C	ASTM D648
Uncured Properties	Nominal Value	Unit	
Gel Time	12	min	
NOTE			
1.	Brookfield #2 spindle @ 30 rpm		

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