

Hetron™ FR 992

Vinyl Ester

Ashland Performance Materials

Message:

HETRON FR992 resin is a low viscosity, unpromoted, flame retardant") patented epoxy vinyl ester with F-Cat technology. This patented technology results in a resin that exhibits no foaming, excellent exotherm control, and industry-leading storage stability. Laminates made with HETRON FR992 resin have achieved a flame spread of <25 (ASTM E-84) when 3% antimony trioxide is added and a flame spread of <75 without antimony trioxide. HETRON FR992 resin gives final products with:

- Excellent flame retardancy
- High strength characteristics
- Excellent impact strength and toughness
- Fast wet-out and low drainage
- Excellent corrosion resistance to acidic and alkaline environments

APPLICATIONS AND USE

HETRON FR992 resin can be used for corrosion resistant, reinforced thermosetting plastic equipment including filament wound, hand lay-up and spray-up tanks, pipes, ducts, stacks, scrubbers, linings or other equipment handling corrosive gases, vapors or liquids where a high degree of flame retardancy is required.

General Information	
Features	Acid Resistant
	Alkali Resistant
	Flame Retardant
	Good Corrosion Resistance
	Good Toughness
	High Impact Resistance
	High Strength
	Low Viscosity
Uses	Laminates
	Liners
	Piping
	Tanks
Forms	Liquid
Processing Method	Filament Winding
	Hand Lay-up

Physical	Nominal Value	Unit	Test Method
Solution Viscosity ¹	425	mPa · s	
Gardner Color	< 5.00		
Solids Content	58	%	
Peak Exotherm	193	°C	
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	35		ASTM D2583

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3450	MPa	ASTM D638
Tensile Strength	89.6	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	4.6	%	
Break	5.0	%	
Flexural Modulus	3590	MPa	ASTM D790
Flexural Strength	145	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	108	°C	ASTM D648
Uncured Properties	Nominal Value	Unit	
Gel Time	17	min	
NOTE			
1.	Brookfield #2 spindle @ 30 rpm		

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