

# Hetron™ FR 998/35

Vinyl Ester

Ashland Performance Materials

## Message:

HETRON FR998/35 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 FR998/35 resin have achieved a flame spread of <25 (ASTM E-84) without antimony trioxide. HETRON FR998/35 resin also contains <35% styrene.

Equipment fabricated with HETRON FR998/35 resin exhibit:

- Excellent flame retardancy
- Excellent thermal shock resistance
- Excellent corrosion resistance to acids and oxidizers
- Excellent thermal properties
- Fast wet-out, low drainage

### APPLICATIONS AND USE

HETRON FR998/35 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. The product is well suited for the caustic/chlorine and power industry applications.

General Information	
Features	Acid Resistant
	Flame Retardant
	Good Corrosion Resistance
	Good Thermal Shock Resistance
	Low Viscosity
	Oxidation Resistant
Uses	Laminates
	Liners
	Piping
	Tanks
Forms	Liquid
Processing Method	Filament Winding
	Hand Lay-up

Physical	Nominal Value	Unit	Test Method
Solution Viscosity <sup>1</sup>	475	mPa · s	
Gardner Color	< 10.0		
Solids Content	66	%	
Hardness	Nominal Value	Unit	Test Method
Barcol Hardness	40		ASTM D2583
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3720	MPa	ASTM D638
Tensile Strength	93.1	MPa	ASTM D638

Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	3930	MPa	ASTM D790
Flexural Strength	152	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	135	°C	ASTM D648
NOTE			

1. Brookfield #2 spindle @ 30 rpm

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### Recommended distributors for this material

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