



## Section 1: Description

Fiberglass Warehouse Vinyl Ester Laminating Resin is a V/E, thixotropic resin designed for fabrication of small to large FRP parts at an ambient temperature. Fiberglass Warehouse Vinyl Ester Laminating Resin is pre-promoted for curing at room temperature with the addition of methyl ethyl ketone peroxide (MEKP) initiator. Fiberglass Warehouse Vinyl Ester Laminating Resin is designed to be used with both the spray-up and hand laid application technique.

### Features:

- Extremely fast wet out and Roll out
- Good Mechanical Strength
- Thixotropic
- High Elongation
- High Impact Strength
- Corrosive resistance
- Superior Adhesion Property

### Uses:

- Yacht/Boat Construction/Blister Repair
- Manufactured parts
- Spray up process
- Hand Lay-up application
- Mold Making

## Section 2: Typical Properties\*1

### Uncured Resin:

Test	Value
Viscosity, 77° F	300-350 cps
Specific Gravity, 77° F	1.05
Curing Property, 77° F	1% MEKP 9% active ORCA S980 or S
Gel Time, 77° F	Variable
Time to Peak	Variable
Peak Exothermic Temp.	266° F- 302° F

\* 1. Values are representative. Specification limits are available upon request.

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**Cured Resin\*2:**

Test	Value
Tensile Strength	12,206 psi
Flexural Strength	19,445 psi
Flexural Modulus	603,227 psi
Tensile Modulus	455,614 psi
Elongation (%)	2.9%
Barcol Hardness, 934-1	54
Heat Distortion Temp.	221° F - 239° F

**Laminated Physical Properties\*3:**

Test	Value
Tensile Strength	19,871 psi
Flexural Strength	22,994 psi
Flexural Modulus	993,550 psi
Tensile Modulus	1,666,326 psi

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\* 2. Thickness: 3 mm  
After Cure: 176°F x 2hrs, 248°F x 2hrs

\* 3. #450 Chopped Strand Mat 3 plies  
Glass Content: 33 %  
After Cure: 176°F x 2hrs, 248°F x 2hrs

**Section 3: Handling & Storage**

**Handling & Storage:**

As with all polyester resin, rate and degree of cure are a function of initiator concentration and of temperature. Resin and work area should be between 70°F and 95°F to ensure satisfactory results. Initiator levels should be within a range of 1.0-2.2% based on weight of resin. The use of initiator levels outside of this range may result in an inadequate cure, with laminates exhibiting moderate to severe post cure after demolding.

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Fiberglass Warehouse Vinyl Ester Resin is available in Quarts, Gallons, pails and 55-Gallon metal drums. To ensure maximum stability and maintain optimum resin properties, resins should be stored in closed containers at temperatures below 75°F and away from heat sources and sunlight. All storage areas and containers should conform to local fire and building codes. Drum stock should be stored away from all sources of flame or combustion. Inventory levels should be kept to a reasonable min with first-in, first-out stock rotation.

**Read and understand the Safety Data Sheet before working with this product**

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