

## Fiberlay 555 V/E Resin

The logo for Fiberlay, featuring the word "Fiberlay" in a stylized, red, bubbly font with a blue outline and a registered trademark symbol.

# 555

### Description:

Fiberlay 555 is a V/E, thixotropic resin designed for fabrication of small to large FRP parts at an ambient temperature. Fiberlay 555 is pre-promoted for curing at room temperature with the addition of methyl ethyl ketone peroxide (MEKP) initiator. Fiberlay 555 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

### TYPICAL PROPERTIES\*1

#### Uncured Resin

<u>Test</u>	<u>Value</u>
Viscosity, 77°F	3 00-350cps
Specific Gravity, 77°F	1.05
Curing Property, 77°F	1% MEKP 9% active ORCA S980 or S950
Gel Time, 77°F	Varies
Time to Peak	Varies
Peak Exothermic Temp.	266-302°F

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

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### Cured Resin\*<sup>2</sup>

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

### Laminated Physical Properties\*<sup>3</sup>

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

\*<sup>2</sup> Thickness: 3mm  
After Cure: 176°F x 2hrs, 248°F x 2hrs

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

### 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.

Fiberlay 555 is available in quarts, gallons and 5 gallon plastic pails.

To ensure maximum stability and maintain optimum resin properties, resins should be stored in closed containers at temperatures below 75°F and a way 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.

### Safety

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

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