

Fiberlay P-18 Waxed Surfboard/Greenhouse Resin

The logo for Fiberlay, featuring the word "Fiberlay" in a stylized, red, outlined font with a blue shadow effect.

P-18

Description:

Fiberlay P-18 is an Ortho GP, waxed, thixotropic, polyester resin designed for fabrication of small to large FRP parts at an ambient temperature. Fiberlay P-18 is pre-promoted for curing at room temperature with the addition of methyl ethyl ketone peroxide (MEKP) initiator. Fiberlay P-18 is designed to be used for hand lay-up, spray-up and filament winding purposes.

Features:

- Extremely fast wet out and Roll out
- Low Exotherm
- Thixotropic
- Moderate trim time
- Early development of Barcol Hardness
- Translucent. (Semi-transparency)

Uses:

- Yacht/Boat Construction
- Surfboard
- Green House Applications
- Spray up process
- Hand Lay-up application

TYPICAL PROPERTIES *1

Uncured Resin

<u>Test</u>	<u>Value</u>
Viscosity, 77°F	400-460 cps
Specific Gravity, 77°F / 77°F	1.08-1.12
Curing Property, 77°F	1% MEKP 9% active ORCA S980
Gel Time 77° F	Varies
Time to Peak	Varies
Thix Index	2.1-2.6

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

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Cured Resin *2

<u>Test</u>	<u>Value</u>
Tensile Strength	7,252 psi
Tensile Modulus	449,617 psi
Flexural Strength	19,145 psi
Flexural Modulus	581,151 psi
Heat Distortion Temp	158° F
Barcol Hardness, 934-1	40
Water Absorption	.1%
Elongation	1.6%

Laminated Physical Properties *3

<u>Test</u>	<u>Value</u>
Tensile Strength	17,316 psi
Flexural Strength	29,665 psi
Flexural Modulus	1,136,295 psi
Tensile Modulus	1,192,403 psi

* 2. Thickness : 3 mm
After Cure: 77°F x 6hrs, 176°F x 4hrs

* 3. #450 Chopped Strand Mat 2 plies
#570 Roving Cloth 2 plies
Glass Content: 40 %
After Cure : 77°F x 6hrs, 176°F x 4hrs

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 P-18 is available in pints, quarts, gallons and 5-gallon 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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