

## FIBERLAY 456 Clear Casting Polyester Resin



# 456

### Description:

Fiberlay 456 is a pre-promoted, orthophthalic polyester resin. This resin has been designed for use as a clear casting resin. The clarity of this resin is exceptional and has been designed for thick castings.

### Features:

- Good transparency and colorless
- Low Shrinkage
- Good dispersing of pigment and dimensional stability
- Excellent crack resistance

### Uses:

- Casting
- Counter Tops
- Jewelry/Art
- Custom Crafts

### TYPICAL PROPERTIES \*1

#### Uncured Resin

<u>Test</u>	<u>Value</u>
Viscosity, 77°F	5 00-600 cps
Curing Property, 77°F	1% MEKP 9% active ORCA S980
Gel Time 77°F	30 min
Time to Peak	30 min
Peak Exothermic Temp.	311°F

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

#### Cured Resin \*2

<u>Test</u>	<u>Value</u>
Tensile Strength	7,252 psi
Tensile Modulus	478,625 psi
Tensile Elongation	2.2%
Flexural Strength	13,053 psi
Flexural Modulus	522,136 psi
HDT	144°F
Barcol Hardness, 934-1	40

The information herein is general information designed to assist customers in determining whether Fiberlay products are suitable to their applications. Fiberlay products are intended for sale to industrial and commercial customers. We require customers to inspect and test our products before use and to satisfy themselves as to contents and suitability for their specific applications. **Nothing herein constitute any warranty express or implied, including any warranty of merchantability or fitness for a particular purpose**, nor is any protection from any law or patent to be inferred. The exclusive remedy for all proven claims is limited to replacement of our materials and in no event shall we be liable for special, incidental or consequential damages.

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\*2 Thickness: 3mm  
Post Cure: 77°F x 16hrs, 212°F x 2hrs

### Handling & Storage

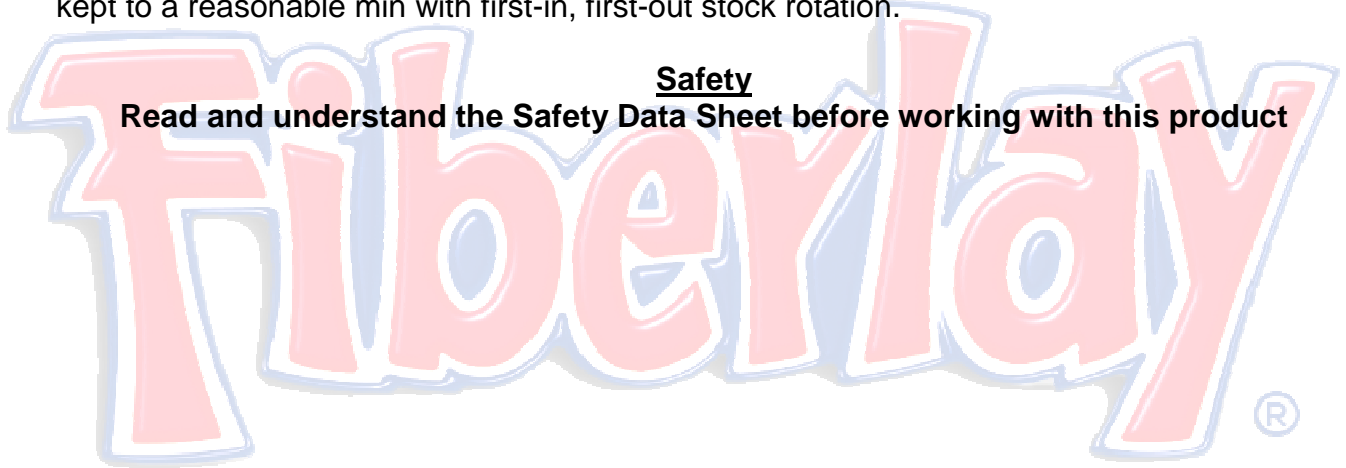
As with all polyester resin, rate and degree of cure are a function of initiator concentration and of temperature. Resin and work area should be between 70°F and 95°F to ensure satisfactory results. Initiator levels should be within a range of 1.0-2.2% based on weight of resin. The use of initiator levels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

Fiberlay 456 is available in pints, quarts, gallons and 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**

The logo for Fiberlay is rendered in a large, stylized, bubbly font. The letters are filled with a light pink color and have a thick, light blue outline. The word "Fiberlay" is written in all lowercase letters. A registered trademark symbol (®) is located at the bottom right of the letter 'y'. The logo is centered horizontally on the page.

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