

OptiCLEAR™ Liquid Encapsulant Fill *SF801A & SF801B*

This formulation is a clear epoxy resin system designed for potting and encapsulation. It is formulated to have a room temperature cure, excellent moisture resistance and cure to a high finished strength.

Complete cure of this material will be 5-7 days at room temperature but can be accelerated with mild heating of 40°C to 80°C for 2-4 hours.

Uncured (Wet) Properties

Color

Water Clear

Specific Gravity

Part A 1.20

Part B 0.95

Mixed 1.1

Viscosity (RVDV-II+, Spindle 7 @ 10 rpm @ 25°C)

Part A 1,500 cps

Part B 10 cps

Mixed 250 cps

Filler Content

0.0%

Storage Life

>12 months @ 25°C

Process Parameters

In order to obtain a uniform and stoichiometrically correct mixture a correct mix ratio is very important. For this reason a scale or balance should be used to proportion out Part A and Part B.

The material needs to be mixed thoroughly, scraping all sides and bottom of the container, as even small amounts of unmixed materials can cause irregularities of the cured and finished product.

SF801A will crystalize over time. If SF801A is not water white and crystal clear before use, warm slightly at 40 to 60°C until crystals disappear. Cool to room temperature before using.

Handling Properties

Mix Ratio per 100 parts A

by Weight B 50.0

by Volume B

Pot Life @ 25°C

>3 Hours

Gel Time

20 Hours

Cured Properties

Hardness: 70 Shore D

Glass Transition Temperature (T_g) by DMA

65°C

Storage and Handling

Shipment

Recommended temperature is Room temperature

Storage

Store at 25°C for up to 12 months

Safety

Refer to MSDS for details.

All values are considered typical based on tests believed to be accurate. Polysciences, Inc. may change the data as appropriate.

Ordering Information

In The U.S. Call: 1-800-523-2575 • 215-343-6484

In The U.S. Fax: 1-800-343-3291 • 215-343-0214

In Europe Call: (49) 6221-756767

In Europe Fax: (49) 6221-764620