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OptiCLEAR™ Liquid Encapsulant SF850A&B

TECHNICAL DATA SHEET 870

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DESCRIPTION

OptiCLEAR™ SF850A&B is a two component epoxy designed for encapsulating and coating applications requiring good clarity and high heat resistance. The product is easy to use and has excellent adhesion to many substrates, including metals, glass and ceramics.

UNCURED PROPERTIES

	Part A	Part B	Mix
Type	Epoxy Resin	Hardener mixture	
	Mixture		
Appearance	Clear	Clear, light yellow	Clear
Viscosity, cps	2000	150	500
Specific Gravity	1.12	1.02	1.07

PROCESS PARAMETERS

Mix Ratio

	Part A	Part B
By Weight	100	100
By Volume	100	90

CURE PARAMETERS

OptiCLEAR™ SF850A&B can be cured through a range of time and temperature cycles. Some of these include:

- 4 hours @ 100°C, or
- 3 hours @ 125°C, or
- 1.5 hours @ 150°C

Optimum properties, especially for heat resistance, result from a step wise cure cycle of increasing temperature, such as:

1 hour @ 100°C + 1 hour @ 125°C + 1 hour @ 150°C

The product should be cured soon after application to avoid any water absorption of the uncured product.

For minimal yellowing, the product is best cured <125°C.

CURED PROPERTIES

Property	Units	Value
Durometer @25°C	Shore D	85
Color	Visible	Clear
Adhesion Strength, ASTM D1002	psi	1,600
Temperature Range of use	°C	-50 thru +200

STORAGE AND HANDLING

Shipping	Room Temperature; keep containers covered when not in use.
Safety	Refer to MSDS for details

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

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