



U.S. Corporate Headquarters  
400 Valley Rd.  
Warrington, PA 18976  
1(800) 523-2575 / (215) 343-6484  
1(800)343-3291 fax  
info@polysciences.com

Polysciences Europe GmbH  
Handelsstrasse 3  
D-69214 Eppelheim, Germany  
+(49) 6221-765767  
+(49) 6221-764620 fax  
info@polysciences.de

Polysciences Asia-Pacific, Inc.  
2F-1, 207 Tunhwa N. Rd.  
Taipei, Taiwan 10595  
(886) 2 8712 0600  
(886) 2 8712 2677 fax  
info@polysciences.tw

## TECHNICAL DATA SHEET 899

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# High IR Absorption Epoxy Product PC 610 A&B

### DESCRIPTION

PC 610 A&B is an epoxy product designed for applications requiring high absorption (low reflectivity) of infra red radiation.

### PRODUCT FEATURES

- High IR Absorption-Low Reflectivity
- High Heat Resistance
- High Modulus
- Good Dimensional Stability
- Durable
- Long Work Life

### TYPICAL UNCURED PROPERTIES

Values Approximate

	PC 610A	PC610B	PC610A&B
Color	Black	Amber	Black
Viscosity, CPS	50K	<1K	20K

### USAGE

Part A: Part B Mix Ratio By Weight 100:20

Mixed Pot Life @ 25°C 2 hours

### CURING CONDITIONS

Optimum cure cycle = 1 hour @ 150° C

Oven curing times may vary depending on factors such as: oven size, mass of product to be cured, and conductivity of component being bonded or sealed.

### TYPICAL CURED PROPERTIES

Values Approximate

Appearance	Black Rigid Polymer
Durometer	85D
Temperature Range of Use	-60°C through 220°C
IR Absorption	> 95%
Tg	> 135° C
CTE	< 60 ppm-°C
Youngs Modulus	>4 MPa

### APPLICATION

Add Part A to Part B at a weight ratio of 5 to 1.

Mix the components together avoiding air entrapment as much as possible. Mix until product is streak free and a uniform black in color. Scrape sides of container to be sure all material is mixed. Before use it is best to place the product in a vacuum chamber connected to a vacuum. The mixture should be exposed to vacuum until foaming stops.

For mixing of small amounts, dispense material into a clear plastic bag, squeeze out entrapped air, seal and knead to mix. This will produce an air free mixture.

### STORAGE AND HANDLING

Store at 25°C for up to 12 months

#### North America (United States)

1 (800) 523-2575 / (215) 343-6484  
1 (800) 343-3291 / (215) 343-0214 fax

#### Europe (Germany)

(49) 6221-765767 / (49) 6221-764620 fax

#### Asia-Pacific (Taiwan)

(886) 2 8712 0600 / (886) 2 8712 2677 fax

Online anytime at: [polysciences.com](http://polysciences.com)