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# **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
Durometer
Black Rigid Polymer
85D
Temperature Range of Use
-60°C through 220°C

IR Absorption
7g
> 135° C
CTE
< 60 ppm-°C
Youngs Modulus

Black Rigid Polymer
85D
-60°C through 220°C

-60°C through 220°C

-60°C through 220°C

-60°C through 220°C
-60°C through 220°C
-60°C through 220°C

# **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

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