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TECHNICAL DATA SHEET 707

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PC620 A&B

DESCRIPTION

PC620 A&B is a 2 component epoxy designed for bonding, encapsulating and sealing applications requiring high strength, high rigidity and high Tg. PC620 A&B cures at elevated temperatures.

UNCURED PROPERTIES

Typical properties, values approximate

| | Part A | Part B | Mixture |
|----------------|-------------|---------------------------|----------|
| Туре | Epoxy Resin | Epoxy Curative Mixture | |
| Color | Tan | Amber | Tan |
| Viscosity, cps | Paste | < 300 | ~ 20,000 |

PROCESS PARAMETERS Mix Ratio

| | Part A | Part B |
|-----------|--------|--------|
| By Weight | 2 | 1 |

USAGE

Mix the components together avoiding air entrapment as much as possible. This can be done by adding the components to a small clear bag with a zipper type closure, squeezing out the air, sealing the bag and kneading the product together for approximately 1 minute. A small cut in the corner of the bag can then be used to extrude the mixed product.

If mixed in a container, the product should be left to stand until any foam or air is removed. This can be done quickly by placing the mixture in a desiccator attached to a vacuum pump. The mixture can be vacuumed until, foaming stops.

OPTIMUM CURE CYCLE

2 hours @ 150°C + 2 hours @ 200°C

CURED PROPERTIES

| Property | Units | Value |
|--------------------------|---------|-------------------|
| Durometer @25°C | Shore D | 90 |
| Tg | °C | > 200 |
| CTE | ppm | <50 |
| Resistivity | Ohm-cm | >10 ¹⁵ |
| Dielectric Strength | V/mil | >450 |
| Temperature Range of Use | °C | -40 thru + 220 * |

Under low stress conditions and for intermittent exposures, higher temperature resistance is likely.

STORAGE AND HANDLING

| Storage | Room temperature |
|---------|--------------------------------------|
| Safety | Refer to MSDS for handling practices |

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

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