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TECHNICAL DATA SHEET 686

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Conformal Coat **CC1004**

DESCRIPTION

CC 1004 is an epoxy based conformal coating. The product has been designed for coating and sealing of electronic components requiring high heat resistance and durability. The product has excellent adhesion, chemical resistance and is easy to process.

FEATURES

- Low Viscosity
- · Dual Curable by UV or heat
- Excellent Adhesion
- High Heat and Chemical Resistance
- High Gloss

UNCURED (WET) PROPERTIES

Type Formulated Epoxy Resin Composition
Color Clear and Colorless to Pale Yellow

Viscosity 2,000 cPs Solids 67%

USAGE

Apply CC 1004 by brush, dip or spray methods to the surface to be coated.

DRYING OF COATING

The applied coating should be placed in an air circulating oven or hot plate @ $40^{\circ}\text{C}-80^{\circ}\text{C}$ to dry the coating. For a typical coating thickness this is 10-20 minutes. The dried coating will be dry and tack free at room temperature.

CURING

The dry coating can be cured by exposure to high intensity UV-A light, or by heat curing.

Typical heat cure cycles:

Temperature °C	Time, minutes	
125	120	
150	60	
160	40	

CURED PROPERTIES

Property	Units	Value
Hardness @ 25°C	Shore D	85
Color	Colorless to pale yellow	
Temp. Range of Use	°C	-60 thru + 270 *
Transmittance @ 400nm	%	>95
@ 600nm		>97
@ 800nm		>97
Tg	°C	125
Modulus	GPa	2.50

STORAGE AND HANDLING

Storage 12 months @ <5°C 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.

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