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TECHNICAL DATA SHEET 685

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Conformal Coat CC1003

DESCRIPTION

CC 1003 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	600 cPs
Solids	60%

USAGE

Apply CC 1003 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°C-80°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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