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NoSWEEP™ Wire Bond Encapsulant EW8004

TECHNICAL DATA SHEET 929

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DESCRIPTION

Polysciences, Inc. NoSWEEP™ Wire Bond Encapsulant is a novel, 100% solids, one component, liquid encapsulant designed for encapsulation of very narrow diameter, long and ultra fine pitch wire bonds on semiconductor devices. NoSWEEP™ is dispensed onto the wires immediately after wire bonding, flowing easily between and around the wires without causing sweep or sag and without voids. EW 8004 will cure at lower temperatures than other wire bonding products making it suitable for use on temperature sensitive substrates.

CUSTOMER BENEFITS

NoSWEEP™ Liquid Encapsulant offers the following distinct advantages over conventional molding systems:

- Enables implementation of 35µm pitch roadmap wire bonding
- Allows for the use of longer wires with low cost, high-density substrates and enable simple die shrinks
- Enables cost reduction through the use of thinner diameter gold wire
- Readily dispensed

UNCURED (WET) PROPERTIES

Color	Black
Viscosity	50 kcps
Specific Gravity	1.7
Pot Life @ 25° C	8 hours

PROCESS PARAMETERS

Thaw the product to approximately 20°C prior to use.
Apply EW 8004 using a suitable size needle tip to the area to be bonded and sealed.

CURE CYCLE

Glue Line Temperature	Cure Time
100°C	2 hours
120°C	90 minutes
150°C	30 minutes

CURED PROPERTIES

Durometer	85D
Tg	160°C
CTE	30 ppm

STORAGE AND HANDLING

Storage	Store at -40°C for up to 1 year
Safety	Refer to MSDS for safe 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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