

U.S. Corporate Headquarters 400 Valley Rd. Warrington, PA 18976 1(800) 523-2575 / (215) 343-6484 1(800)343-3291 fax info@polysciences.com Polysciences Europe GmbH Handelsstrasse 3 D-69214 Eppelheim, Germany +(49) 6221-765767 +(49) 6221-764620 fax info@polysciences.de Polysciences Asia-Pacific, Inc. 2F-1, 207 Tunhwa N. Rd. Taipei, Taiwan 10595 (886) 2 8712 0600 (886) 2 8712 2677 fax info@polysciences.tw

TECHNICAL DATA SHEET 929

Page 1 of 1

*No***SWEEP**[™] *Wire Bond Encapsulant EW8004*

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

*No***SWEEP** [™] 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

Cure Time
2 hours
90 minutes
30 minutes

CURED PROPERTIES

 $\begin{array}{ccc} \text{Durometer} & 85\text{D} \\ \text{Tg} & 160^{\circ}\text{C} \\ \text{CTE} & 30 \text{ ppm} \end{array}$

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.

North America (United States)

1 (800) 523-2575 / (215) 343-6484 1 (800) 343-3291 / (215) 343-0214 fax

Europe (Germany)

(49) 6221-765767 / (49) 6221-764620 fax

Asia-Pacific (Taiwan)

(886) 2 8712 0600 / (886) 2 8712 2677 fax

Online anytime at: polysciences.com

Should any of our materials fail to perform to our specifications, we will be pleased to provide replacements or return the purchase price. We solicit your inquiries concerning all needs for life sciences work. The information given in this bulletin is to the best of our knowledge accurate, but no warranty is expressed or implied. It is the user's responsibility to determine the suitability for their own use of the products described herein, and since conditions of use are beyond our control, we disclaim all liability with respect to the use of any material supplied by us. Nothing contained herein shall be construed as a recommendation to use any product or to practice any process in violation of any law or any government regulation.