



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

# StenSeal™ ES8010

## TECHNICAL DATA SHEET 936

Page 1 of 1

### DESCRIPTION

Polysciences' StenSEAL™ is a 100% solid, one component, and silica filled epoxy. The cured product provides high: strength, modulus and heat resistance. StenSEAL™ ES8010 can be applied by extrusion or screen-printing.

### PRODUCT BENEFITS

- Reliable performance
- JEDEC Level 2A, 260°C
- Low warpage and minimal cure stress
- Good adhesion to die, substrates and most other inter facing materials

### UNCURED PROPERTIES

Typical Properties, values approximate

Appearance	Black Liquid
Viscosity @ 25°C	250 kcps thixotropic paste
Specific Gravity	1.70
Optimum Cure Cycle	1 hour @ 100°C + 1 hour @ 160°C

### PROCESS PARAMETERS

#### Dispensing

Heat dispense needle to 40-60°C  
Heat substrate to 60-80°C

#### Cure Cycle

90 min. @ 100°C + 60 min. @ 165°C

#### Alternate Cure Cycle

90 min. @ 100°C + 120 min. @ 150°C

### CURED PROPERTIES

Durometer	90D
Tg	180°C
CTE	<20 ppm
Modulus	3.5 GPa

### USAGE

StenSeal™ 8010 is stored frozen to extend its shelf life; the product must be thawed prior to use. Apply the thawed product to the bonding surface and cure at the recommended curing cycle.

### STORAGE AND HANDLING

**Storage** Shelf life 6 months @ <-40°C

*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](http://polysciences.com)