



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™ Liquid Encapsulant ES8001

TECHNICAL DATA SHEET 663

Page 1 of 1

DESCRIPTION

Polysciences' StenSEAL™ Stencil Applied Overmolds are novel, 100% solids, one component, silica filled liquid encapsulants formulated to create a molded package appearance when applied by means of a stencil printer. StenSEAL™ is designed to work best with packages that have the wires encapsulated with NoSWEEP™ Wire Bond Encapsulant or on the backside of die such as LOC and BOC.

PRODUCT BENEFITS

StenSEAL™ Stencil Applied Overmolds are expected to offer the following benefits:

- Reliable performance equal to or better than industry standards
- High Productivity
- Low cost of ownership

ES8001 offers the following distinct advantages:

- Rapid cure
- Low warpage and minimal cure stress
- Good adhesion to die, substrates, and most other interfacing materials.

UNCURED (WET) PROPERTIES

Color Black
Specific Gravity 2.13g/ml
Viscosity @25°C RVDV-II+, Spindle 14
230,000 cps (+25,000 cps)
Pot Life @25°C >24 hours
Storage Life >12 months @ -40°C

PROCESS PARAMETERS

Thawing

- For best dispensing, thaw to 25°C at room temperature and use as soon as thawed.
- Store cartridge in refrigerator or freezer for short delays between print cycles
- Return cartridge to freezer as soon as possible to extend pot life

Gel Times

23 minutes @ 90°C

Cure Schedule

90 minutes @ 60°C plus
30 minutes @ 90°C plus
60 minutes @ 125°C

Alternative Cure Schedule

90 minutes @ 90°C plus
60 minutes @ 125°C plus
60 minutes @ 160°C

CURED PROPERTIES

Hardness 90, Shore D
Glass Transition Temperature (Tg) by DMA
>170°C
Coefficient of Thermal Expansion (CTE)
Alpha 1 TBS ppm/°C
Extractable Ionic Content
Na <5ppm
K <5ppm
Cl <10ppm

STORAGE AND HANDLING

Shipping Recommended temperature is -40°C
Storage Store at -40°C for up to 12 months
Safety Refer to MSDS for details

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