

StenSeal[™] ES8010

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TECHNICAL DATA SHEET 936

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DESCRIPTION

Polysciences' StenSEAL^M is a 100% solid, one component, and silica filled epoxy. The cured product provides high: strength, modulus and heat resistance. StenSEAL^M 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

90D
180°C
<20 ppm
3.5 GPa

USAGE

StenSealTM 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.

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