



Product Data Sheet – SI 100 Lid Seal Adhesive

Description:

SI 100 is a thermally conductive B-stage adhesive. The material has a relatively low coefficient of thermal expansion, high glass transition temperature and good adhesion properties to plastic and ceramic substrates. SI 100 is RoHSA compatible.

Selected Properties (Cured Material):

Color: Cream

Thermal Conductivity: .45 w/m -°k

Glass Transition Temperature: 130°C

Linear Coefficient of Thermal Expansion: (130°C and below) 48×10^{-8}

Recommended Cure Schedule:

30 Minutes @ 175°C

60 Minutes @ 150°C

Note: The above referenced information is for informational purposes only. Spectrum recommends that customers evaluate this product in their own facility for their specific application.

Spectrum Semiconductor Materials, Inc. 2027 O'Toole Ave. San Jose, CA 95131
Phone: (408) 435-5555 Fax: (408) 435-8226 email: mailto:ssm_sales@spectrum-semi.com
www.spectrum-semi.com



Typical Assembly recommendations for Open Cavity Plastic Packages

- 1) Die Thickness: 12 – 15 mils
- 2) Die Attach Method: Epoxy
- 3) Wire Bond:

Thermal Compression Au Bonding

- a) 0.001” to 0.0013” Diameter Wire
- b) Ceramic capillary with 20° taper
- c) Maximum package temperature during bonding: 150°C
- d) Minimum wire length: 15 mils / nominal 25 mils

Al Wedge Bonding

- a) 0.001” to 0.00125” Diameter Wire
- b) 60° or 90° wire feed machine (depending on available bond area)
- c) Maximum package temperature during bonding: Room Temperature
- d) Minimum wire length: 15 mils / nominal 25 mils

- 4) Seal Types:
 - a) Lid (plastic or ceramic)
 - b) Tape
 - c) Glob Top