



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



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.

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