

Product Information Sheet

MATERIAL ID:

EPO-TEK® B9126-8

Date: Apr 2010

Per:

Rev: II

Material Description:

A single component, thermally and electrically conductive, epoxy adhesive designed for semiconductor die attach and circuit assembly applications. Its unique features are a pot-life of several days, low temperature cure and syringe dispensing rheology. It can be used for electrical connections when bonding chips, SMDs, PCBs and substrates.

Number of Components:

Single

Mix Ratio by weight:

N/A

Cure Schedule (minimum)

150°C/5 Minutes - 120°C/15 Minutes

Specific Gravity:

2.92 --- Part A: Part B:

Pot Life:

5 Days

Shelf Life:

One year refrigerated

NOTE: Container(s) should be kept closed when not in use. Filled systems should be stirred thoroughly before mixing and prior to use

MATERIAL CHARACTERISTICS: *To be used as a guide only, not as a specification. Data below is not guaranteed. Different batches, conditions and applications yield differing results; Cure condition: 150°C/1 hour*

* denotes test on lot acceptance basis

PHYSICAL PROPERTIES:	
<p>*Color (before cure): Silver</p> <p>*Consistency: Smooth paste</p> <p>*Viscosity (23°C): @ 20 rpm 11,000 - 18,500 cPs</p> <p>Thixotropic Index: 3.2</p> <p>*Glass Transition Temp: ≥ 60 °C (Dynamic Cure 20—200°C /ISO 25 Min; Ramp -10—200°C @ 20°C/Min)</p> <p>Coefficient of Thermal Expansion (CTE): Upon Request</p> <p>Shore D Hardness: 71</p> <p>Lap Shear @ 23°C: 980 psi</p> <p>Die Shear @ 23°C: ≥ 5 Kg / 1,700 psi</p> <p>Degradation Temp: 340 °C</p>	<p>Weight Loss:</p> <p>@ 200°C:</p> <p>@ 250°C:</p> <p>@ 300°C: 1.07 %</p> <p>Operating Temp:</p> <p>Continuous: - 55°C to + 175°C</p> <p>Intermittent: - 55°C to + 275°C</p> <p>Storage Modulus @ 23°C: 227,897 psi</p> <p>Ion Content:</p> <p>Cl⁻: 80 ppm</p> <p>NH₄⁺: 41 ppm</p> <p>Na⁺: 23 ppm</p> <p>K⁺: 8 ppm</p> <p>*Particle Size: ≤ 30 microns</p>
ELECTRICAL AND THERMAL PROPERTIES:	
<p>Thermal Conductivity: 1.2 W/mK</p> <p>*Volume Resistivity @ 23°C: ≤ 0.0002 Ohm-cm</p>	<p>Dielectric Constant (1KHz): N/A</p> <p>Dissipation Factor (1KHz): N/A</p>
OPTICAL PROPERTIES @ 23°C:	
<p>Spectral Transmission: N/A</p>	<p>Index of Refraction: N/A</p>

EPOXY TECHNOLOGY, INC.
 14 FORTUNE DRIVE, BILLERICA, MA 01821 (978) 667-3805, FAX (978) 663-9782
 WEB SITE: www.epotek.com