

Product Information Sheet

MATERIAL ID:
EPO-TEK® B9101-2 Unfilled
Date: 08/2007

Per:
Rev: I

Material Description:

A single component, electrically and thermally insulating epoxy designed for adhesive, sealing and potting of micro-electronics and semiconductor devices. It can be used in many industries such as military, automotive, optical or medical electronics.

Number of Components:

Single

Mix Ratio by weight:

N/A

Cure Schedule (minimum)

180°C/1 Hour

Specific Gravity:

1.19

Part A:

Part B:

Pot Life:

28 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: 180°C/1 hour*

* denotes test on lot acceptance basis

PHYSICAL PROPERTIES:

*Color (before cure):	Cloudy white	Die Shear @ 23°C:	≥ 20 Kg / 6,800 psi
*Consistency:	Pourable liquid	Degradation Temp:	340 °C
*Viscosity (23°C):		Weight Loss:	
@ 100 rpm	1,000 - 1,300 cPs	@ 200°C:	N/A
Thixotropic Index:	N/A	@ 250°C:	1.64 %
*Glass Transition Temp:	≥ 80 °C (Dynamic Cure 20—200°C /ISO 25 Min; Ramp -10—200°C @ 20°C/Min)	@ 300°C:	2.49 %
Coefficient of Thermal Expansion (CTE):		Operating Temp:	
Below Tg:	46 x 10 ⁻⁶ in/in°C	Continuous:	- 55°C to + 150°C
Above Tg:	191 x 10 ⁻⁶ in/in°C	Intermittent:	- 55°C to + 250°C
Shore D Hardness:	88	Storage Modulus @ 23°C:	288,026 psi
Lap Shear @ 23°C:	>2,000 psi	*Particle Size:	N/A

ELECTRICAL AND THERMAL PROPERTIES:

Thermal Conductivity:	N/A	Dielectric Constant (1KHz):	N/A
Volume Resistivity @ 23°C:	N/A	Dissipation Factor (1KHz):	N/A

OPTICAL PROPERTIES @ 23°C:

Spectral Transmission:	>87 % @ 420-1600 nm 73 % @ 340 nm	Refractive Index (uncured):	1.5420 @ 589 nm
-------------------------------	--------------------------------------	------------------------------------	-----------------

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