

Product Information Sheet

MATERIAL ID:

EPO-TEK® B9021-1

Date: 10/2006

Per:

Rev: II

Material Description:

A single component, B-stageable epoxy paste for semiconductor, microelectronics, and optical assemblies. It can be used in hybrid assemblies for lid-sealing and substrate attach. For opto-packaging, it can be used as the main gasket seal of glass plates in LCDs, or for sealing filter windows onto opto-sensors. A more thixotropic and viscous version of EPO-TEK® B9021.

Number of Components:

Single

Mix Ratio by weight:

N/A

Cure Schedule (minimum)

B-stage: 75°C/30 Minutes Cure: 150°C/1 Hour

Specific Gravity:

1.24 --- Part A: Part B:

Pot Life:

28 Days - closed container **Dry Time:** < 1 day

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; B-stage cure condition: 75°C/30 Minutes - Cure condition: 150°C/1 Hour * denotes test on lot acceptance basis*

PHYSICAL PROPERTIES:

*Color (before cure):	Cream	Die Shear @ 23°C:	≥ 4 Kg / 1,360 psi
*Consistency:	Smooth thixotropic paste	Degradation Temp:	307 °C
*Viscosity (23°C):		Weight Loss:	
@ 20 rpm	10,000 - 15,000 cPs	@ 200°C:	3.37 %
Thixotropic Index:	7.1	@ 250°C:	4.22 %
Glass Transition Temp:	≥ 50 °C	Operating Temp:	
Coefficient of Thermal Expansion (CTE):		Continuous:	- 55°C to + 150°C
Below Tg:	97 x 10 ⁻⁶ in/in°C	Intermittent:	- 55°C to + 250°C
Above Tg:	145 x 10 ⁻⁶ in/in°C	Storage Modulus @ 23°C:	202,551 psi
Shore D Hardness:	74	*Particle Size:	≤ 20 microns
Lap Shear @ 23°C:	1,448 psi		

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