

Product Information Sheet

MATERIAL ID:

EPO-TEK® B9021

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. It can be used as the main gasket seal of glass plates in LCDs or sealing filter windows onto opto-sensors.

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:

1.35 --- 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):	White	Die Shear @ 23°C:	4 Kg / 1,360 psi
*Consistency:	Smooth paste	Degradation Temp:	313 °C
*Viscosity (23°C):		Weight Loss:	
@ 50 rpm	4000 - 8000 cPs	@ 200°C:	3.77 %
Thixotropic Index:	1.6	@ 250°C:	4.41 %
Glass Transition Temp:	≥ 60 °C	@ 300°C:	7.97 %
Coefficient of Thermal Expansion (CTE):		Operating Temp:	
Below Tg:	36 x 10 ⁻⁶ in/in°C	Continuous:	- 55°C to + 160°C
Above Tg:	57 x 10 ⁻⁶ in/in°C	Intermittent:	- 55°C to + 260°C
Shore D Hardness:	76	Storage Modulus @ 23°C:	229,854 psi
Lap Shear @ 23°C:	986 psi	*Particle Size:	≤ 20 microns
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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