

Product Information Sheet

MATERIAL ID:

EPO-TEK® T3084-A2A

Date: 08/2007

Per:

Rev: IV

Material Description:

A single component, solvent free, screen printable polymer designed for semiconductor wafer applications including passivation, CSP, MEMs and alpha particle protection of memory die. Its unique features include sharp printing definition without pin holes, non-voiding and no bleed out.

Number of Components:

Single

Mix Ratio by weight:

N/A

Cure Schedule (minimum)

200°C/1 Hour

Specific Gravity:

1.28 --- Part A: Part B:

Pot Life:

28 Days

Shelf Life:

One year refrigerated - **DO NOT DEEP FREEZE**

NOTE: Container(s) should be kept closed when not in use. GENTLY FOLD TO MIX – DO NOT STIR
- this is an air-free adhesive paste

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: varies as required*
* denotes test on lot acceptance basis

PHYSICAL PROPERTIES:

*Color (before cure):	Light Yellow	Weight Loss:	
*Consistency:	Smooth slightly thixotropic paste	@ 200°C:	< 0.05 %
*Viscosity (23°C):		@ 250°C:	0.24 %
@ 0.5 rpm	80,000 - 150,000 cPs	@ 300°C:	1.09 %
Thixotropic Index:	2.79	Operating Temp:	
*Glass Transition Temp:	≥ 80 °C (Dynamic Cure 20—200°C /ISO 25 Min; Ramp -10—200°C @ 20°C/Min)	Continuous:	- 55°C to + 200°C
Coefficient of Thermal Expansion (CTE):		Intermittent:	- 55°C to + 300°C
Below Tg:	89 x 10 ⁻⁶ in/in°C	Storage Modulus @ 23°C:	365,748 psi
Above Tg:	327 x 10 ⁻⁶ in/in°C	Ion Content:	
Shore D Hardness:	82	Cl⁻:	108 ppm
Lap Shear @ 23°C:	1,730 psi	NH₄⁺:	75 ppm
Die Shear @ 23°C:	≥ 10 Kg / 3,400 psi	Na⁺:	17 ppm
Degradation Temp:	358 °C	K⁺:	6 ppm
		*Particle Size:	≤ 20 microns

ELECTRICAL AND THERMAL PROPERTIES:

Thermal Conductivity:	0.40 W/mK	Dielectric Constant (1KHz):	3.33
Volume Resistivity @ 23°C:	≥ 1 x 10 ¹³ Ohm-cm	Dissipation Factor (1KHz):	0.0058

OPTICAL PROPERTIES @ 23°C:

Spectral Transmission:	N/A	Index of Refraction:	N/A
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