

Product Information Sheet

MATERIAL ID:

EPO-TEK® T6067-T

Date: 08/2007

Per:

Rev: III

Material Description:

A single component, thermally conductive, electrically insulating epoxy designed for hybrid microelectronic packaging and assemblies. It may be used for bonding SMDs, die-attach, substrate-attach or general heat sinking.

Number of Components:

Single

Mix Ratio by weight:

N/A

Cure Schedule (minimum)

150°C/1 Hour - 125°C/2 Hours

Specific Gravity:

1.97 --- Part A: Part B:

Pot Life:

28 Days

Shelf Life:

One year at -40°C

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:	
*Color (before cure):	White
*Consistency:	Highly Viscous Paste
*Viscosity (23°C):	
@ 0.5 rpm	600,000 - 700,000 cPs
Thixotropic Index:	N/A
*Glass Transition Temp:	≥ 90 °C (Dynamic Cure 20—300°C /ISO 25 Min; Ramp -10—200°C @ 20°C/Min)
Coefficient of Thermal Expansion (CTE):	
Below Tg:	35 x 10 ⁻⁶ in/in°C
Above Tg:	93 x 10 ⁻⁶ in/in°C
Shore D Hardness:	94
Lap Shear @ 23°C:	> 2,000 psi
Die Shear @ 23°C:	≥ 10 Kg / 3,400 psi
Degradation Temp:	350 °C
Weight Loss:	
@ 200°C:	0.23 %
@ 250°C:	0.33 %
@ 300°C:	0.59 %
Operating Temp:	
Continuous:	- 55°C to + 200°C
Intermittent:	- 55°C to + 300°C
Storage Modulus @ 23°C:	718,925 psi
Ion Content:	
Cl ⁻ :	197 ppm
NH ₄ ⁺ :	50 ppm
Na ⁺ :	9 ppm
K ⁺ :	5 ppm
*Particle Size:	≤ 20 microns

ELECTRICAL AND THERMAL PROPERTIES:	
Thermal Conductivity:	0.89 W/mK
Volume Resistivity @ 23°C:	≥ 8 x 10 ⁹ Ohm-cm
Dielectric Constant (1KHz):	5.4
Dissipation Factor (1KHz):	0.005

OPTICAL PROPERTIES @ 23°C:	
Spectral Transmission:	N/A
Index of Refraction:	N/A

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