

Product Information Sheet

MATERIAL ID:

EPO-TEK® GE116

Date: 08/2007

Per:

Rev: II

Material Description:

A single component, thixotropic, electrically and thermally insulating epoxy adhesive designed for bonding SMDs to the PCB. It can be used for electronic assembly in many devices including consumer electronics, cell phone, telecommunications, medical, automotive, and scientific/OEM. It is a red color version of EPO-TEK® 115-SMT.

Number of Components:

Single

Mix Ratio by weight:

N/A

Cure Schedule (minimum)

150°C/5 Minutes - 120°C/15 Minutes

Specific Gravity:

1.15 --- Part A: Part B:

Pot Life:

28 Days

Shelf Life:

One year at -40°C / 28 days @ 23°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):	Red	Die Shear @ 23°C:	≥ 5 Kg / 1,700 psi
*Consistency:	Smooth thixotropic paste	Degradation Temp:	344 °C
*Viscosity (23°C):		Weight Loss:	
@ 1 rpm	200,000 - 300,000 cPs	@ 200°C:	0.27 %
Thixotropic Index:	N/A	@ 250°C:	1.12 %
*Glass Transition Temp:	≥ 65 °C (Dynamic Cure	@ 300°C:	2.96 %
20—200°C /ISO 25 Min; Ramp -10—200°C @ 20°C/Min)		Operating Temp:	
Coefficient of Thermal Expansion (CTE):		Continuous:	- 55°C to + 175°C
Below Tg:	41 x 10 ⁻⁶ in/in°C	Intermittent:	- 55°C to + 275°C
Above Tg:	218 x 10 ⁻⁶ in/in°C	Storage Modulus @ 23°C:	438,637 psi
Shore D Hardness:	80	*Particle Size:	≤ 20 microns
Lap Shear @ 23°C:	1568 psi		

ELECTRICAL AND THERMAL PROPERTIES:

Thermal Conductivity:	N/A	Dielectric Constant (1KHz):	3.48
Volume Resistivity @ 23°C:	≥ 7 x 10 ¹³ Ohm-cm	Dissipation Factor (1KHz):	0.007

OPTICAL PROPERTIES @ 23°C:

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