

Product Information Sheet

MATERIAL ID:

EPO-TEK® 360ST

Date: 02/2007

Per:

Rev: III

Material Description:

A two component, high-temperature grade, electrically and thermally insulating epoxy for semiconductor, electronics, fiber optics and medical applications. It is a slightly thixotropic paste for non-flow properties.

Number of Components:

Two

Mix Ratio by weight:

100:10

Cure Schedule (minimum)

150°C/1 Minute - 100°C/10 Minutes

Specific Gravity:

--- Part A: 1.03 Part B: 1.02

Pot Life:

3 Hours

Shelf Life:

One year at room temperature

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):	Part A: Tan Part B: Amber	Die Shear @ 23°C:	≥ 10 Kg / 3,400 psi
*Consistency:	Slightly thixotropic paste	Degradation Temp:	344 °C
*Viscosity (23°C):		Weight Loss:	
@ 100 rpm	1400 - 2400 cPs	@ 200°C:	0.88 %
Thixotropic Index:	2.6	@ 250°C:	1.86 %
*Glass Transition Temp:	≥ 80 °C (Dynamic Cure 20—200°C /ISO 25 Min; Ramp -10—200°C @ 20°C/Min)	@ 300°C:	4.01 %
Coefficient of Thermal Expansion (CTE):		Operating Temp:	
Below Tg:	51 x 10 ⁻⁶ in/in°C	Continuous:	- 55°C to + 175°C
Above Tg:	215 x 10 ⁻⁶ in/in°C	Intermittent:	- 55°C to + 275°C
Shore D Hardness:	85	Storage Modulus @ 23°C:	256,460 psi
Lap Shear @ 23°C:	> 2,000 psi	*Particle Size:	≤ 20 microns

ELECTRICAL AND THERMAL PROPERTIES:

Thermal Conductivity:	N/A	Dielectric Constant (1KHz):	3.58
Volume Resistivity @ 23°C:	≥ 1.8 x 10 ¹³ Ohm-cm	Dissipation Factor (1KHz):	0.012

OPTICAL PROPERTIES @ 23°C:

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