

Product Information Sheet

MATERIAL ID:

EPO-TEK® 360T

Date: 07/2009

Per:

Rev: IV

Material Description:

A two component, high-temperature grade, electrically and thermally insulating epoxy for semiconductor, electronics, fiber optics and medical applications. It is a 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: 1.16 Part B: 1.02

Pot Life:

4 Hours

Shelf Life:

Six months 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		
*Consistency:	Thixotropic paste		
*Viscosity (23°C):		Die Shear @ 23°C:	≥ 10 Kg / 3,400 psi
@ 50 rpm	4000 - 6000 cPs	Degradation Temp:	341 °C
Thixotropic Index:	5.1	Weight Loss:	
*Glass Transition Temp:	≥ 80 °C (Dynamic Cure 20—200°C /ISO 25 Min; Ramp -10—200°C @ 20°C/Min)	@ 200°C:	0.59 %
Coefficient of Thermal Expansion (CTE):		@ 250°C:	1.79 %
Below Tg:	53 x 10 ⁻⁶ in/in°C	@ 300°C:	4.26 %
Above Tg:	146 x 10 ⁻⁶ in/in°C	Operating Temp:	
Shore D Hardness:	75	Continuous:	- 55°C to + 175°C
Lap Shear @ 23°C:	1997 psi	Intermittent:	- 55°C to + 275°C
		Storage Modulus @ 23°C:	317,695 psi
		*Particle Size:	≤ 20 microns

ELECTRICAL AND THERMAL PROPERTIES:			
Thermal Conductivity:	N/A	Dielectric Constant (1KHz):	3.84
Volume Resistivity @ 23°C:	≥ 2 x 10 ¹³ Ohm-cm	Dissipation Factor (1KHz):	0.014

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

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