

Product Information Sheet

MATERIAL ID:

EPO-TEK® OG147

Date: 08/2007

Per:

Rev: II

Material Description:

A single component, optically opaque, UV curable epoxy, designed for adhesive, sealing, and encapsulating applications found in semiconductor, electro-optics, fiber optics, circuit assembly, medical, and scientific/OEM industries. It is a high viscosity epoxy ideal for blocking out light in opto-packages.

Number of Components:

Single

Mix Ratio by weight:

N/A

Cure Schedule (minimum)*

100mW/cm² for > 2 minutes @ 320-500 nm (depending on thickness)

Specific Gravity:

1.14 --- Part A: Part B:

Pot Life:

N/A

Shelf Life:

One year at room temperature

NOTE: Container(s) should be kept closed in a dark location when not in use.

*Please see Applications Note(s) available on our website.

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.*

* denotes test on lot acceptance basis; Cure condition: varies as required

PHYSICAL PROPERTIES:

*Color (before cure):	Black	Die Shear @ 23°C:	≥ 10 Kg / 3,400 psi
*Consistency:	Smooth thixotropic paste	Degradation Temp:	365 °C
*Viscosity (23°C):		Weight Loss:	
@ 10 rpm	30,000 - 40,000 cPs	@ 200°C:	0.47 %
Thixotropic Index:	1.8	@ 250°C:	1.00 %
Glass Transition	≥ 130 °C (Post-Cure)	@ 300°C:	2.25 %
Dynamic Scan 20—200°C; Ramp -10—200°C @ 20°C/Min)		Operating Temp:	
Coefficient of Thermal Expansion (CTE):		Continuous:	- 55°C to + 175°C
Below Tg:	55 x 10 ⁻⁶ in/in°C	Intermittent:	- 55°C to + 275°C
Above Tg:	174 x 10 ⁻⁶ in/in°C	Storage Modulus @ 23°C:	275,935 psi
Shore D Hardness:	80	*Particle Size:	N/A

OPTICAL PROPERTIES @ 23°C:

Spectral Transmission:	<6 % @ 360-680 nm <9 % @ 700-980 nm <3 % @ 1000-1600 nm	Index of Refraction:	N/A @ 589 nm
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