

Product Information Sheet

MATERIAL ID:

EPO-TEK® OG142

Date: 05/02/2008

Per:

Rev: III

Material Description:

A single component, UV curable epoxy, designed for adhesive, sealing, and encapsulating applications found in semiconductor, electro-optics, fiber optics, medical, and scientific/OEM industries. It is a high Tg epoxy, ideal for LCD and OLED applications.

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:

1.17 --- 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):	Clear/Colorless
* Consistency:	Pourable liquid
* Viscosity (23°C):	
@ 20 rpm	9,000 - 15,000 cPs
Thixotropic Index:	N/A
* Glass Transition	≥ 95 °C (Post-Cure)
	Dynamic Scan 20—200°C; Ramp -10—200°C @ 20°C/Min)
Coefficient of Thermal Expansion (CTE):	
Below Tg:	58 x 10 ⁻⁶ in/in°C
Above Tg:	156 x 10 ⁻⁶ in/in°C
Shore D Hardness:	86
Die Shear @ 23°C:	≥ 4 Kg / 1,360 psi
Degradation Temp:	421 °C
Weight Loss:	
@ 200°C:	0.20 %
@ 250°C:	0.49 %
@ 300°C:	1.06 %
Operating Temp:	
Continuous:	- 55°C to + 200°C
Intermittent:	- 55°C to + 300°C
Storage Modulus @ 23°C:	222,183 psi
* Particle Size:	N/A
OPTICAL PROPERTIES @ 23°C:	
Spectral Transmission:	>97 % @ 660-1640 nm
	>92 % @ 440-620 nm
Refractive Index (uncured):	1.5692 @ 589 nm